

GALLOPER II

GALLOPER II

OWNER'S MANUAL

FOREWORD

Thank you for choosing Hyundai. We are pleased to welcome you to the growing number of discriminating people who drive Hyundai vehicles. The advanced engineering and high-quality construction of each Hyundai is something of which we're very proud.

Your Owner's Manual will introduce you to the features and operation of your car. It is suggested that you read it carefully, since the information it contains can contribute greatly to the satisfaction you receive from your new car.

The manufacturer also recommends that all service and maintenance on your car be performed by an authorized Hyundai dealer. Hyundai dealers are prepared to provide high-quality service, maintenance and other assistance that may be required.

Hyundai reserves the right to make changes in design and specifications and/or to make additions to or improvements in this product without obligation to install them on products previously manufactured. It is an absolute requirement for the driver to strictly observe all laws and regulations concerning vehicles.

This manual has been written in compliance with such laws and regulations, but some of the contents may become contradictory with later amendment of the laws and regulations.

HYUNDAI MOTOR COMPANY

NOTE: Because future owners will also need the information included in this manual, if you sell this Hyundai, please leave this manual in the vehicle for their use. Thank you.

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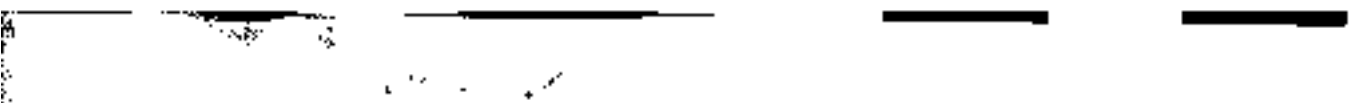
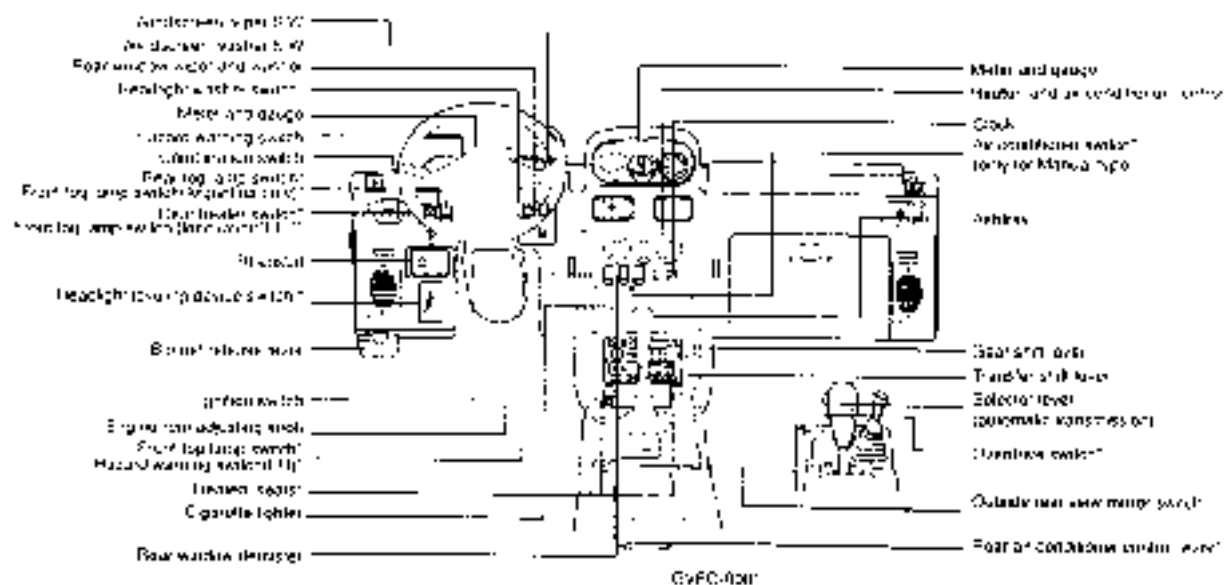


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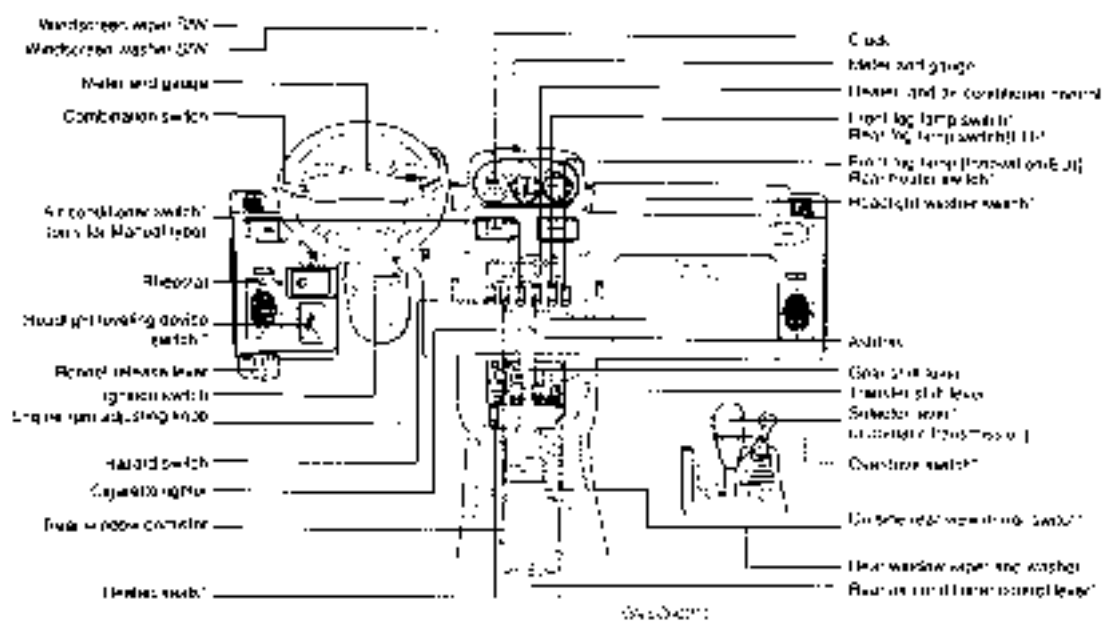
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Instruments and controls (without airbag)



Indication of applicability:
 Optional equipment marked with an asterisk may differ according to the country it is sold in or the sales classification; refer to the sales catalogue.

Instruments and controls (with airbag)*



*Indication of optional items

Optional equipment marked with an asterisk may differ according to the country it is sold in or the sales classification. Refer to the sales catalogue.

Safety precautions and driving tips

Ignition switch
Carrying children
Seat and seat belt
Loading
Automatic transmission*
Brake system
Anti-lock brake system*
Parking
Power steering system
Turbocharger (diesel-powered vehicles)
Catalytic converter
(gasoline-powered vehicles)
Economical driving
Fuel usage (gasoline-powered vehicles)
Limited slip differential*

Ignition switch

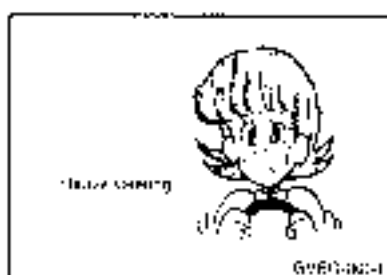


Do not remove the ignition key from ignition switch while driving.

- (1) If the key is accidentally removed while driving, the steering wheel will lock, making it impossible to control the vehicle.

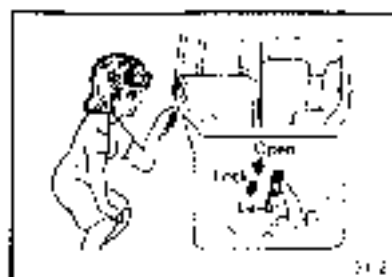


- (2) If the engine is stopped while driving, the brake servomechanism will cease to function and braking efficiency will deteriorate.



- (3) If the engine is stopped while driving, power steering system will not function and it will require more manual power to operate the steering wheel.

Carrying children



- (1) Never leave a child in the vehicle unattended.
- (2) If a child is seated alone in the rear seat, use the child protection system.



- (1) Be careful of children's fingers when opening outside windows.

Seat and seat belt



- (1) Never adjust the driver's seat while the vehicle is in motion. Adjusting the seat while driving could cause the driver to lose control of the vehicle.
- (2) Do not pile luggage or cargo higher than seatbacks for your safety.
- (3) For technical reasons, the second seat and third seat should not be folded down to make a bed while the vehicle is being driven.

- (4) To protect you and your passengers in the event of an accident, it is most important that the seat belts be worn correctly when you drive.
- (5) The seat belt will provide maximum protection for its wearer if the rear seatback is placed in its most upright position. When the seatback is reclined, there is greater risk that the passenger will slide under the belt. Especially in a forward impact accident, you may be injured by the belt or by striking the in-side front panel or seatbacks.

Loading

Loading should not go to the point at which the Maximum Gross Vehicle Weight, Maximum Front Axle Weight or Maximum Rear Axle Weight is exceeded.

Pay close attention to the following in order to maintain good driving characteristics:

- (1) Secure loaded goods properly to keep them from breaking or flying off when the vehicle makes a sudden stop or turn.
- (2) Always close the back door securely when driving to keep exhaust gases from entering the vehicle.
- (3) Secure loads over the side as closely as possible. Place them to the side of rear wheel over the vehicle's height.
- (4) Be cautious to keep loads from loosening or shifting against the rear window to avoid damage to rear window hot wires.

Automatic transmission*

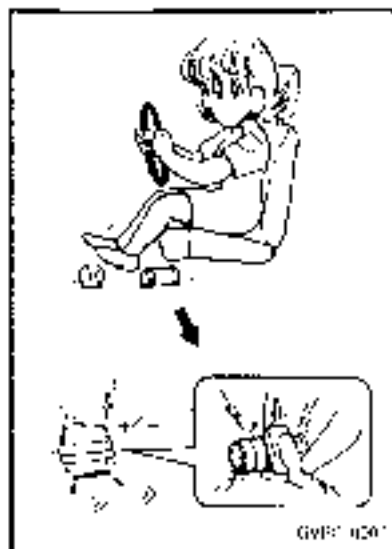


- (1) Before selecting a gear with the engine running and the vehicle stationary, fully depress the brake pedal to prevent the vehicle from creeping. Because the vehicle will begin to move as soon as the gear is engaged, especially when the engine speed is near at least idle or the air conditioner is operating, the brakes should be released only when you are ready to drive away.
- (2) Depress the brake pedal with the right foot at all times. Using the left could cause critical moment delay in sudden maneuver or case of an emergency.

- (3) To prevent sudden acceleration, never race the engine when shifting from the "P" or "N".
- (4) Operating the accelerator pedal while the other foot is resting on the brake pedal will affect braking efficiency and may cause premature wear of brake pads. Do not race the engine with brake pedal pressed. This can damage the transmission.

Brake system

All the parts of the brake system are crucial to safety. Have the vehicle serviced by a GM/CHEV dealer at regular intervals according to the service standards.



- 1) The service brake is divided into two brake circuits, so that when one brake circuit fails, the other is available to stop the vehicle. If this occurs, however, the brake pedal must be depressed further than usual; stop driving as soon as possible and have the brake system serviced at the nearest SAHLE/DOPE/DEALER.
- 2) Do not leave any objects or place a mark (lacquer) around the brake pedal, doing so could prevent the full brake stroke that would be necessary in an emergency. Make sure that the pedal can be operated freely at all times.
- 3) If the vehicle is equipped with a brake warning lamp, the lamp will light up if the brake fluid level is abnormally low.
- 4) If the vehicle is equipped with a brake booster, the brake booster function is lost after the brake pedal is depressed once or twice while the engine is off. If this occurs, the brake will require greater force than usual.

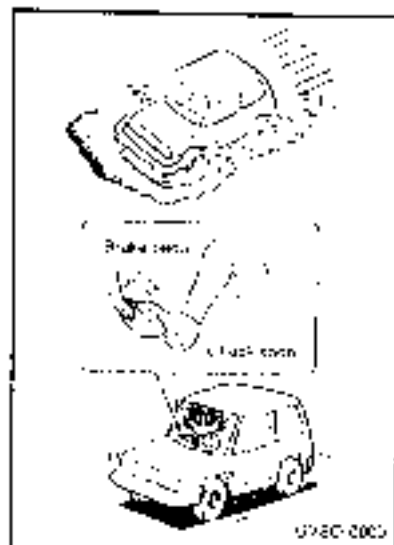
This is especially important when the vehicle is being towed.

On diesel-powered vehicles, the brake booster will no longer function if the V-belt is broken. In this case, use engine braking (downshifting) to reduce the speed of the vehicle and then depress the brake pedal with more force than usual to stop the vehicle in a safe place.

- 5) Check the brake system while driving at a low speed immediately after starting the system that works normally. A lot of water can form on the brake discs and prevent normal functioning after driving in heavy rain or through large puddles, or after the vehicle is washed. If this occurs, repeatedly tap the brake pedal lightly while driving to dry out the brake.



- 6) It is important to take advantage of the braking power of the engine by shifting to a lower gear while driving on steep downhill roads in order to prevent the brakes from overheating.



- 7) With new brake pads or linings, if possible, avoid applying the service brakes fully during the first 200km (124 miles) of driving.

8. Operating conditions and driving habits influence the need of the brake force. In some cases, the driver may be required to have the maximum of the brake force provided by a GVW of 1.8 tons or a similar weight that is used in the Severe Brake, especially, at relatively low speeds. This applies especially to people who drive in heavy traffic or in the city or in stop-and-go traffic, as well as to those who have a long driving history.

Anti-lock brake system* (ABS)

When the brakes are applied on a moving vehicle, excessive force on the brake pedal will cause the wheels on the road surface to lock up. If such a condition occurs, the braking force will be reduced and the braking distance increased, and the vehicle will start to skid and possibly spin with the driver losing control.

The ABS prevents the wheels from locking during braking, to maintain directional stability, steering controllability, and provide optimum braking force.

Driving hints

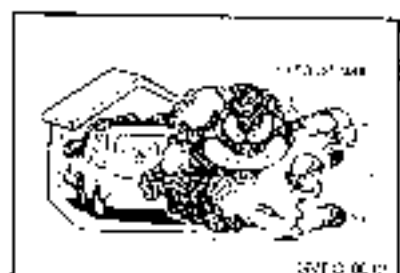
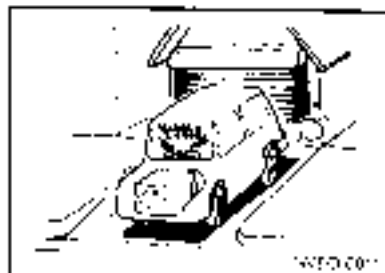
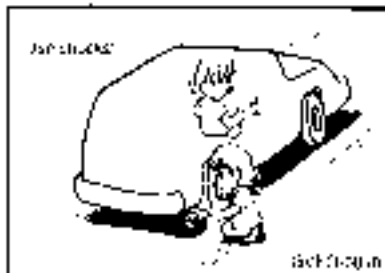
- (1) Even with the ABS, the steering wheel (available during) sudden braking when the ABS is active, differs slightly from when the brakes are not being applied. Be sure to operate the steering wheel carefully.
- (2) Although the braking distance for vehicles equipped with an ABS is generally shorter than for those without, because this distance will vary according to the road condition and other factors, maintain the same distance from the vehicle in front of you as for a vehicle not equipped with an ABS.

- (3) Also, because the braking distance on gravel or snowy roads may be longer than for a vehicle not equipped with an ABS, these roads should be driven at reduced speeds.

CAUTION

Even the ABS can not prevent the natural laws of physics from acting on the vehicle. It can not for instance avoid accidents that maybe resulting from excessive speed in turns, following another vehicle too closely or aquaplaning. It should remain driver's task with safety precautions to judge speeds and brake applications correctly in such conditions.

Parking



- (1) When parking, fully engage the parking brake, and then set the gearshift lever to 1st or reverse for vehicles with manual transmission and set the selector lever to "P" position for vehicles with automatic transmissions. Set the transfer shift lever to any position except "M"; it is recommended for additional safety that wheel chocks also be used on a hill.
- (2) Do not keep the engine running for a long time in a closed or poorly ventilated place. Carbon monoxide gas is odorless and extremely poisonous and dangerous.
- (3) Because the exhaust system produces high temperatures, avoid parking in a place where there are inflammable objects such as dry grass, rags, etc.
- (4) Remove the key from the ignition switch when leaving the vehicle.

Power steering system



When the engine is stopped, the power steering system will not function and it will require more manual power to operate the steering wheel. Keep this in mind in particular when towing the vehicle. Never use all the engine while driving. Periodically check the power steering fluid level.

Turbocharger

(diesel-powered vehicles)

If your vehicle is equipped with a turbocharger, do not stop the engine immediately after operating the vehicle at high speeds. Allow the engine to idle for approximately 60 seconds or more to give the turbocharger a chance to cool down.

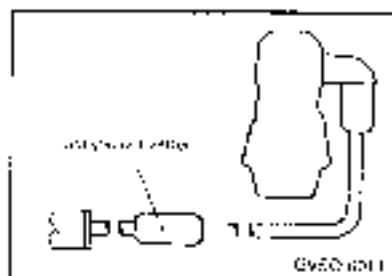
Driving out of mud

If one rear wheel gets stuck in the mud and starts spinning, try using the following method to give the vehicle out of the mud.



1. Set the transfer shift lever to either 4H or 4L and use four wheel drive to free the vehicle out of the mud.
2. If it is still not possible to extract the vehicle, pull the parking brake lever slightly to just barely engage the brake (be sure not to engage it all the way) and by creeping out to engage it all the way and by creeping again. Depress the accelerator gradually and don't forget to release the parking brake once the vehicle is out of the mud.

Catalytic converter (if installed) (gasoline-powered vehicles)



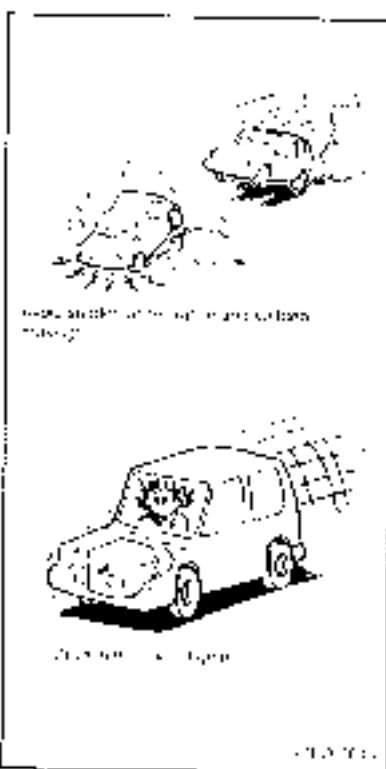
When fuel lines are installed, they are to be handled with care regarding handling except for the use of lead-free gasoline. Exhaust gas purification systems equipped with this catalyst, can reduce the exhaust gas emission of reducing noxious gases. The catalytic converter is installed in the exhaust gas system. Because this catalytic converter has certain safety features, the following points should be observed in addition to normal safety.

- Do not park the vehicle near inflammable materials.
- Do not apply an undercoat to the catalytic converter.

The catalyst contained in this catalyst reduces high temperatures, and by absorbing any noxious in damage. Care should be taken regarding the following points to prevent unburned gasoline from flowing to the back of the catalytic converter.

- Do not turn off the engine when a warning chime.
- Prevent starting by cranking the vehicle if the battery is weak or cannot use other battery to start engine.
- If engine cranks such reduction and increase in engine speed, the engine should be stopped immediately. If the engine should be stopped, it should be started immediately. Contact your nearest SAZU (OPH) dealer for assistance.

Economical driving



For better fuel economy, there are some things you should check that have to be met. The prerequisite for low fuel consumption is a properly adjusted engine. It means to change longer life oil for the vehicle and the most economical oil operation. Have the vehicle serviced by a G5 LOOPER dealer at regular intervals in accordance with the vehicle conditions.

Fuel economy and operation of the engine, noise are highly influenced by personal driving habits as well as the market or operating conditions. The following points should be observed in order to minimize wear of brakes, tires and engine as well as to make an environmental pollution.

(1) Starting

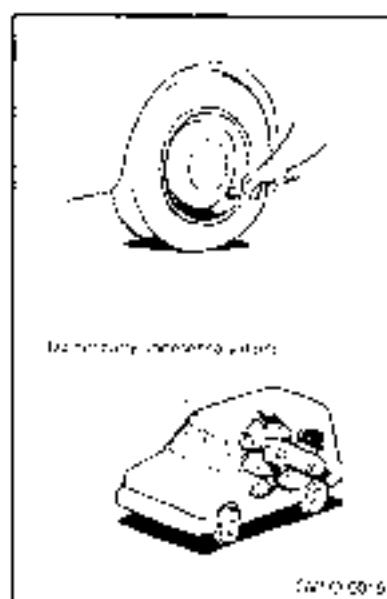
Avoid rapid acceleration and sudden starts, such behavior will result in more fuel consumption.

(2) Stopping

Shift only at an appropriate vehicle speed and engine rpm. Always use the highest gear possible. When driving at high speed, shift only when needed. Fuel economy 25% better than with engine revs 1:20. The clutch should be free should be set to 24". In addition, for vehicles equipped with free-wheeling hub, the free-wheeling hubs should be unlocked.

(3) Gear shift

Frequent starting and stopping increases the average fuel consumption. Use gears with smooth traffic flow whenever possible. When driving on congested roads, avoid use of a low gear at high engine rpm.



(4) Idling

The vehicle consumes fuel even if not idling. Avoid extended idling whenever possible.

(5) Speed

The higher the vehicle speed, the more fuel is consumed. Avoid driving at full speed. Even a slight release of the accelerator pedal will save a significant amount of fuel.

(6) Tire inflation pressure

Check the tire inflation pressure at regular intervals. Low tire inflation pressure increases road resistance and fuel consumption. In addition, low tire pressure adversely affects tire wear and driving control.

(7) Load

Do not drive with unnecessary articles in the luggage compartment, especially during city driving where frequent starting and stopping is necessary. An increased weight of the vehicle will greatly affect fuel consumption. Also avoid driving with unnecessary luggage. Otherwise, the increased air resistance will cause more fuel consumption.

(8) Cold engine starting

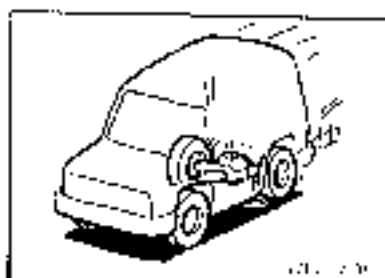
Starting of a cold engine consumes more fuel. Unnecessary fuel consumption is also caused by keeping a hot engine running. After the engine is started, begin driving soon.

Fuel usage

(gasoline-powered vehicles)

Unleaded gasoline only must be used in vehicles equipped with catalytic converter.

Limited-slip differential*



If the engine is started while one of the rear wheels is caught in a rut, the vehicle will nose forward. Do not start the engine while the vehicle is raised on a jack.

If, during four-wheel drive operation, two wheels on the same axle become trapped on opposed wheels become stuck in mud, snow, etc., it may be possible to free the vehicle by depressing the accelerator pedal; however, in this condition the vehicle is continuously in 4L. At high speeds, the limited-slip differential might be damaged.

CAUTION

All vehicles equipped with limited-slip differential must use specific rear differential oil.

MEMO

Instruments

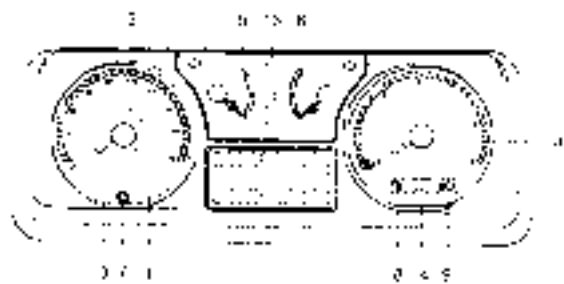
Speedometer
Odometer
Tripmeter and reset button
Tachometer
Fuel gauge
Water temperature gauge
Thermometer*
Inclinometer*
Altimeter*
Indication and warning lamps

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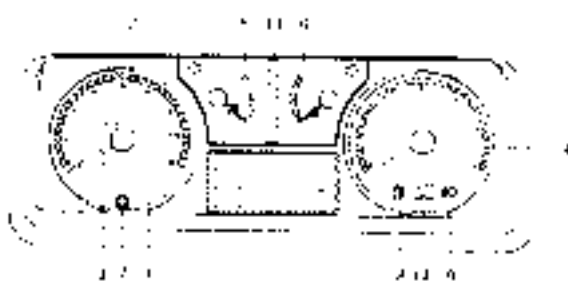
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<TYPE 2>



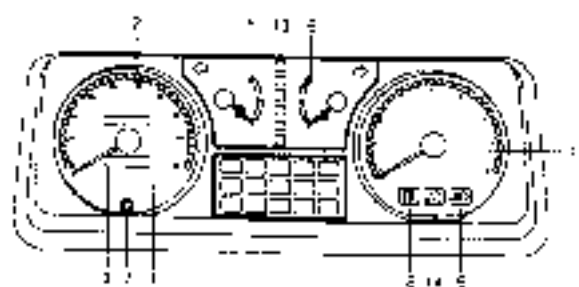
TYPE 301

<TYPE 3>



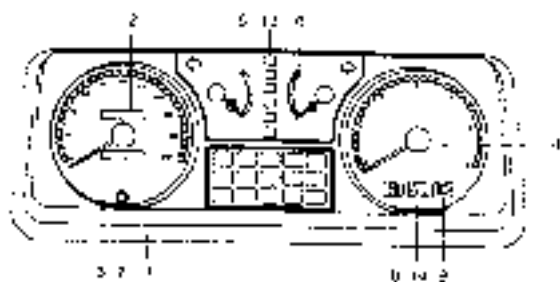
TYPE 302

<TYPE 4>

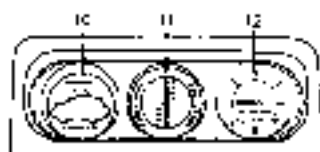


TYPE 303

<TYPE 5>



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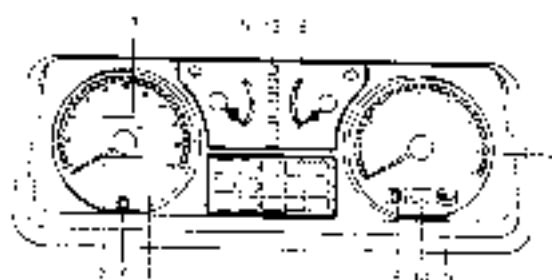


Without a bag

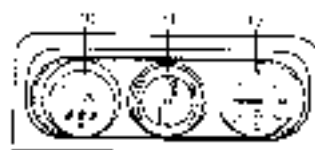
GJ0 305'

- 1 Speedometer
- 2 Odometer
- 3 Trip meter
- 4 Tachometer
- 5 Fuel gauge
- 6 Water temperature gauge
- 7 Trip meter reset button

<TYPE 6>



G6E0074

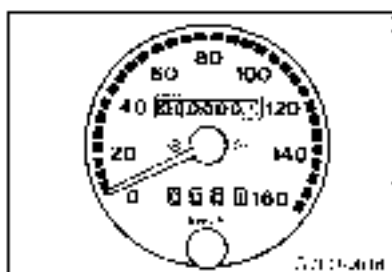


With a bag

G6E0071

- 3 Low fuel warning lamp
- 9 High beam indicator lamp
- 10 Thermometer
- 11 Inclinometer
- 12 Altimeter
- 13 Air position indicator lamp
- 14 Air bag warning lamp

Speedometer



The speedometer indicates the vehicle's speed in kilometers per hour (km/h) or miles per hour (mph).

Odometer

The odometer indicates the total distance the vehicle has traveled.

Tripmeter and reset button

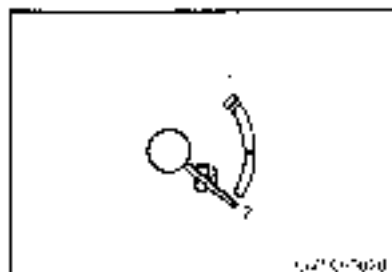
The tripmeter indicates the distance travelled during a particular trip or period. Press the reset button to return the tripmeter indication to zero.

Tachometer



The tachometer indicates the engine speed (rpm). The tachometer can help you obtain more economical driving and also warns you of excessive engine speeds. During travel, watch the tachometer to be sure that the engine speed indication does not rise to the red zone (range of the excessive engine rpm).

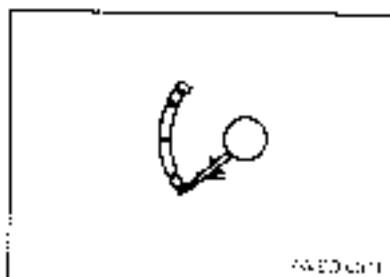
Fuel gauge



The fuel gauge indicates the fuel level in the fuel tank.

- 1 - Full
- 2 - Empty

Water temperature gauge

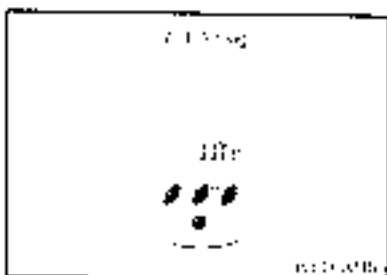


The water temperature gauge measures the engine coolant temperature when the ignition switch is at the ON position. If the indicator needle enters the red zone while the engine is running, it probably indicates that the engine is overheating. When driving, take extra precautions to keep the engine from overheating by temperature.

Thermometer*



The thermometer measures the temperature outside the vehicle. The needle is in the green zone at 19°C (66°F).



How To Use the Gauges

1. To change from clock to set time, turn the digital time display dial clockwise until it coincides with the digital display. The digital display will show the set time.
2. To change from the thermometer to the water temperature gauge, turn the dial clockwise.

NOTE

1. The external temperature displayed may differ from the actual temperature on account of surrounding conditions, driving conditions, etc.
2. Temperature outside the vehicle that are below -30°C (-22°F) or over 70°C (158°F) will result in an error message being displayed (E.C or E.F, E.C or E.H).

If an error message is displayed, the actual temperature will be the range at 30°C (86°F) or 70°C (158°F). The error message will be displayed if the thermometer's range is over.

Inclinometer*

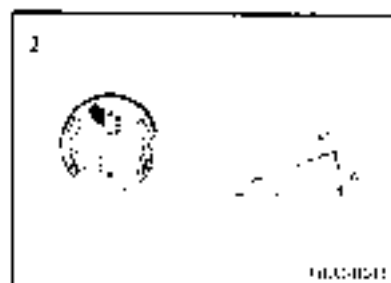


01.01.01.1

This meter indicates the internal angle of the well site, both from the well and from the side.

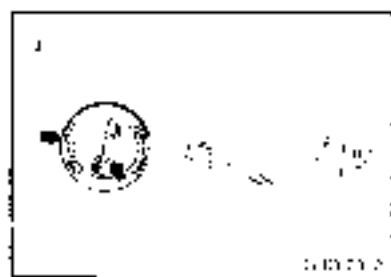
Examples

- 1 - Angle to side inclination (Height inclination of 25°)



01.01.01.1

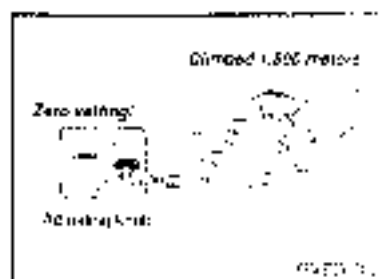
- 2 - Height to rear inclination (Height inclination of 25°)



01.01.01.1

- 2 - Height to rear and side inclination (From inclination of 30°)

Allimeter*



01.01.01.1

Before using the device, set the pointer to 0 on the dial by turning the adjusting knob. The meter will indicate the height of the destination.

Indication and warning lamps

Diesel-powered vehicles

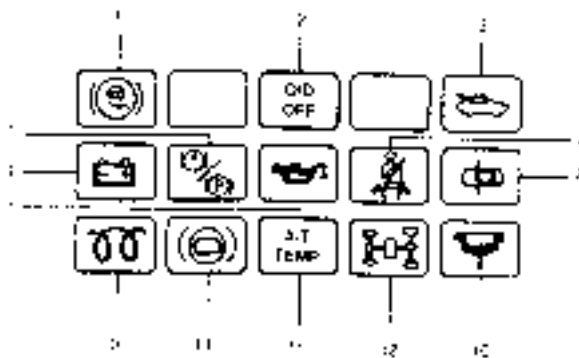


Fig. 5.1.101

- 1 ABS warning lamp
- 2 Cruise control indicator lamp
- 3 Back door ajar warning lamp (back door ajar)
- 4 Charge warning lamp
- 5 Brake warning lamp
- 6 Oil pressure warning lamp
- 7 Seal bell warning lamp

Gasoline-powered vehicles

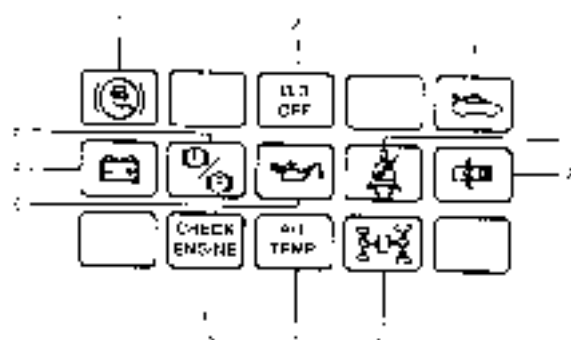
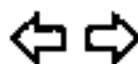


Fig. 5.1.102

- 1 ABS warning lamp
- 2 Diesel brake indicator lamp
- 3 Fuel filter warning lamp
- 4 "A" oil temperature warning lamp
- 5 4WD indicator lamp
- 6 Seal diagnosis check lamp
- 7 Brake vacuum pressure warning lamp

Turn signal indication lamps



These indicator lamps will come on when either the left or right indicator flasher bulb is not working properly. The cause for the fault can be any of the following: a failed bulb, the failure of the flasher relay.

High-beam and caution lamp



This indicator lamp will come on when the high beam is on.

4WD indication lamp



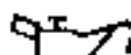
The indicator lamp will come on when the transfer case is in 4WD mode. In the 4WD mode, the vehicle is capable of driving on both the front and rear wheels. For more information, refer to the owner's manual.

Self-diagnosis check lamp (gasoline-powered vehicle only)



This indicator lamp will come on when the engine is idling in the "ON" position, and the vehicle is running. The system will attempt to solve the problem and may fix the problem in the engine control system. Contact the dealer if the lamp remains on.

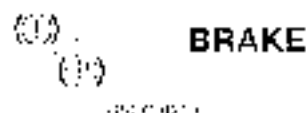
Oil pressure warning lamp



The indicator lamp will come on when the oil pressure is low. The system will present the oil pressure status on the display while the engine is running. The engine must be stopped if the oil pressure is low. For more information, refer to the owner's manual.

Brake warning lamp

TYPE A TYPE B



When the parking brake is engaged, the brake warning lamp will illuminate. The following conditions apply:

- 1) When the parking brake is not fully pulled.
- 2) When the brake fluid level in the reservoir is low.
- 3) If a malfunction is detected in the brake system.
 - a) If the warning lamp illuminates, it indicates that the oil level in the brake master cylinder is low and that the brake fluid should be replaced with fresh fluid that is safe.

If the lamp remains lit and will not turn off, stop the car as immediately as possible and contact the dealer.

Charge warning lamp



24

This lamp illuminates when the ignition switch is set to the "ON" position and goes off after the engine has started. If it lights up while the engine is running, there is a problem in the charging system. Check to see if the belt is broken, and then contact the nearest GALLOPFF dealer.

Door ajar warning lamp



24

The lamp illuminates when the front or rear door is opened or incompletely closed.

Diesel preheat indication lamp



24

The indication lamp illuminates amber when the ignition switch is placed at the "ON" position. As the glow plug becomes hot, the lamp turns off and the engine can be started.

Fuel filter warning lamp (diesel-powered vehicles only)



24

The lamp illuminates when the ignition switch is set to the "ON" position and goes off after the engine has started. If it lights up while the engine is running, it indicates that water has accumulated inside the fuel filter. If this happens, remove the water from the fuel filter.

Low fuel warning lamp



This lamp illuminates when the fuel level in the fuel tank falls to a low level.

- Fuel reminder when warning lamp type
- Long body type - approximately 15 liters
- Short body type - approximately 13 liters
If it illuminates, fuel should be added soon.

Air bag warning lamp



Air bag warning lamp comes on and flashes 6 times after the ignition key is turned to the "on" position or after the engine is started and then it will go out.

A/T (Automatic transmission) oil temperature warning lamp*

**A/T
TEMP**

The A/T oil temperature warning lamp comes on when the A/T fluid temperature becomes abnormally high. When the lamp comes on, reduce the engine revolution and move the vehicle to a safe area. Then, set the selector lever to "P" position and idle the engine until the warning lamp goes off. When the warning lamp goes off, the vehicle can run as usual. If the warning lamp does not go off, please have your vehicle inspected at a GALLOPER dealer.

Overdrive off indication lamp*

**O/D
OFF**

The lamp will "go" up when the overdrive switch is off.

ABS warning lamp*

(TYPE A)

ABS

(TYPE B)



(TYPE C)

The ABS warning lamp should illuminate when the ignition switch is set to "ON" and should go off in approximately 5 seconds.

If the warning lamp is kept on, it indicates that the ABS is not functioning and that only the standard brake system is in operation. Of course the standard brake system will still function normally.

**Brake vacuum pressure warning lamp
(diesel-powered vehicles only)**



(TYPE D)

The lamp illuminates when the vacuum pressure in the brake booster falls to a low level. The lamp should illuminate at once, regardless of the effect, unless the brakes has deteriorated and that the brake pedal stroke or depression will be more force than usual.

If the lamp illuminates it and will not go out, stop the vehicle immediately and contact the nearest GALLOPER dealer.

Seat belt warning lamp



(TYPE E)

The lamp illuminates when the ignition is switched on. It then goes out 6 seconds later.

Switches

Light switch
Turn/lane change signal switch
Dipper switch
Passing switch
Windscreen wiper and washer switch
Headlight washer switch*
Rear window wiper and washer switch
Rheostat (meter illumination control)
Hazard warning flasher switch
Rear window demister switch
Cargo lamp
Rooftop lamp
Front fog lamp switch*
Rear fog lamp switch*
Headlight leveling device *

Light switch



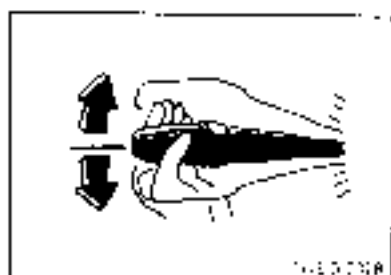
Rotate the switch to turn on the lights

1. Lights off
2. Power on, tail, license plate, and instrument panel lamps on
3. Headlights on

(U.K., Sweden, Ireland, Finland, Norway, Denmark)

When the ignition key is at the "ON" position and the light switch is set to the "OFF" position, the low beam of the headlights (also, on, with flameless (Daytime Running Light)

Turn/lane change signal switch



The turn signal lamps flash when the switch is operated from the ignition switch at the "ON" position.

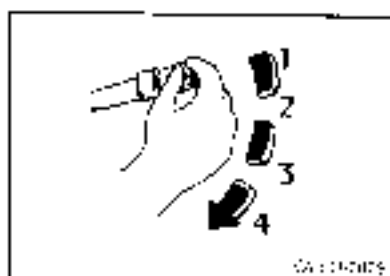
Dipper switch

The beam changes from high to low (or low to high) each time the lever is pulled. While the high beam is on, the high beam indicator lamp will also illuminate.

Passing switch

The headlights will go on when the lever is pulled and will go off when it is released.

Windscreen wiper and washer switch



The wiper and washer can be operated by moving the switch lever with the ignition switch at the "ON" or "ACC" position.

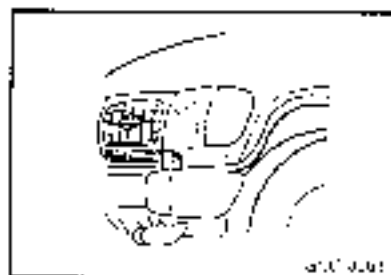
Windscreen wiper

1. Off
2. Intermittent operation
3. Slow
4. Fast

On vehicles with the variable beamlight type, the illumination intervals are adjustable from 0 to 10 seconds by turning the adjuster knob.

Turn the knob toward you to extend the illumination intervals.

Headlight washer switch* (If installed)



The headlight washer switch can be operated with the master switch at the "ON" position and the light switch at the "on" position. Push the button once and the washer fluid will be sprayed on the headlights for about 0.5 seconds.

NOTE

Check the headlight washers periodically to confirm that the washer fluid is being sprayed properly onto the headlight lenses.

NOTE

- 1) Before operating the wipers in cold weather, make sure that the wiper blades are not frozen to the windshield. Attempting to operate the wipers while the blades are frozen to the windshield could cause the motor to burn out.
- 2) If the wipers stop during operation because of ice or some other obstruction on the windshield, the wiper motor could burn out even if the wiper switch is turned off. In this case, promptly stop the vehicle, turn off the ignition, and clear the windshield to allow proper wiper operation.
- 3) Do not use the wipers when the windshield is dry, doing so could scratch the windshield and wear the blades prematurely.

Windscreen washer

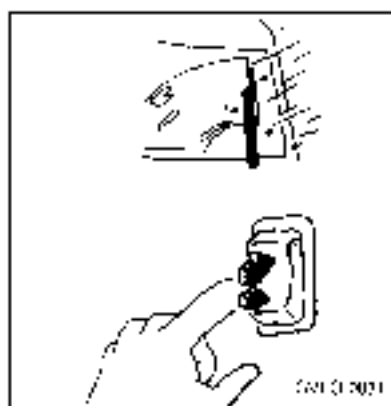


The washer fluid will be sprayed onto the windshield.

For vehicles equipped with intermittent wipers, the wipers operate automatically while the washer fluid is being sprayed. Avoid using the washer continuously for more than 20 seconds.

Do not operate the washer when the fluid reservoir is empty.

Rear window wiper and washer switch



The rear window wiper and washer switch can be operated with the ignition switch at the "ON" position. Push the switch to operate the rear window wiper or spray the washer fluid.

NOTE

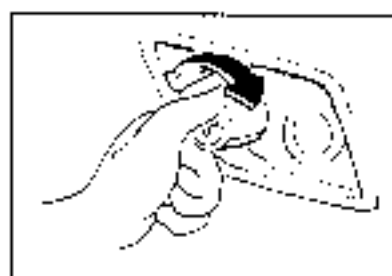
①: Before operating the wiper in cold weather, check to be sure that the wiper blade is not frozen to the rear window. Attempting to operate the wiper while the blade is frozen to the rear window could cause the motor to burn out.

- ②: If the wiper stops during operation because of ice or some other obstruction on the rear window, the wiper motor could burn out even if the wiper sensor is turned off. In this case, promptly stop the vehicle, turn off the ignition, and clean the rear window to allow proper wiper operation.
- ③: Do not use the wiper when the rear window is dry, doing so could scratch the rear window and wear the blade prematurely.

Rear window washer

The washer will be sprayed onto the rear window while the switch is being pushed. Avoid using the washer continuously for more than 20 seconds. Do not operate the washer when the fluid reservoir is empty.

Rheostat (meter illumination control)



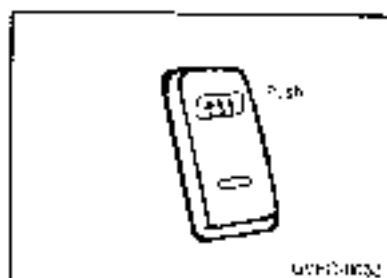
The rheostat can be adjusted while the light switch is on. Turn the knob to adjust the meter illumination to the desired brightness.

Hazard warning flasher switch



The hazard warning lamps can always be operated, regardless of the position of the ignition key.
When this switch is operated, all turn signal lamps flash continuously, as do the turn signal indicator lamps.
Limit the operation time to 15 minutes an hour, otherwise the battery will be discharged.

Rear window demister switch

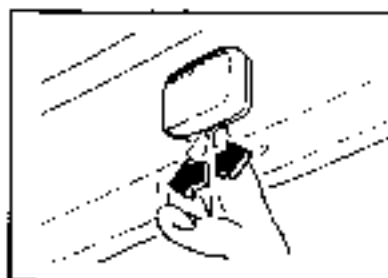


The rear window demister is turned on by pushing in on the switch.
The indication lamp will illuminate while the demister is on.
Push it again to turn it off.

NOTE

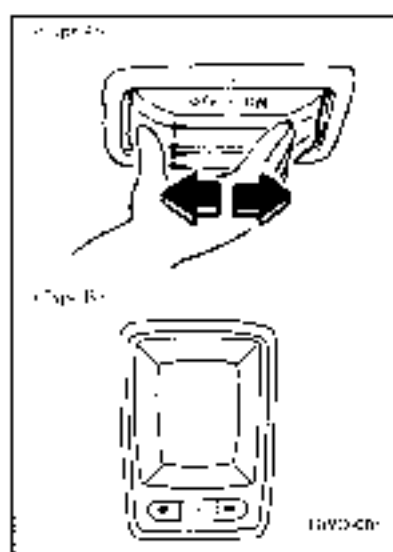
- (1) The engine must be running for the rear window demister to operate. Be sure to turn the demister off immediately after the window is clear.
- (2) When cleaning the inside of the rear window, use a soft cloth and wipe gently along the heater wires, being careful not to damage the wires.

Cargo lamp

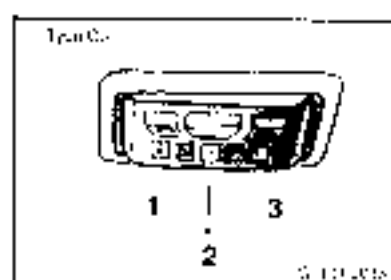


- 1 - The lamp goes out
- 2 - The lamp illuminates

Room lamp

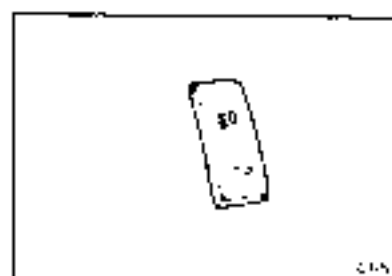


The room lamp can be operated by moving the lens itself to the left or right or pushing the button.



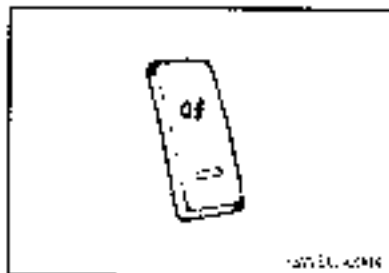
1. Push the button to turn on the lamp (left side).
Push it again to turn it off.
2. The lamp illuminates when a door is opened and goes out when it is closed.
3. Push the button to turn on the lamp (right side).
Push it again to turn it off.

Front fog lamp switch* (If installed)



If a front fog lamp was obtained when the headlight bulbs were...

**Rear fog lamp switch *
(if installed)**

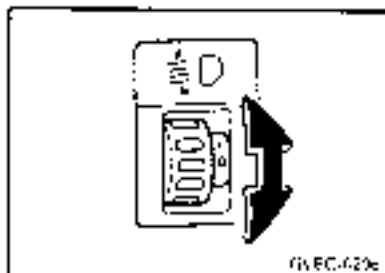


The rear fog lamp can operated when the headlight beam is on.

Push the switch to turn on the lamp.
Push it again to turn it off.

The illumination lamp will light up even if the rear fog lamp is off.

**Headlight leveling device
system * (if installed)**



To adjust the headlight beam level according to the number of the passengers and the loading weight in the luggage area, turn the headlight leveling switch.

The higher the number of the switch position, the lower the headlight beam level. Always keep the headlight beam at the proper leveling position. If headlights may cause glare to other road users.

Used below are the examples of proper switch settings.

For loading conditions other than those listed below, adjust the switch position so that the beam height may be the highest as the conditions contained according to the list.

Loading condition	SW position/SWB LWB=5seats/LWB 7seats/LWB 9seats/VAN
Driver only	0/0-0/0-0
Driver + front passenger	0/0/0 (except VAN)
Driver + front passenger + rear passenger + luggage load	1/1 (only LWB 7seats/LWB 9seats)
Full passengers (including driver)	1/0-1-1 (except VAN)
Full passengers (including driver) + full trunk loading	2/1/2-1 (except VAN)
Driver + full trunk loading	0/2/0/0-1

MEMO

[The body of the document contains several paragraphs of text that are extremely faint and illegible due to low contrast and scan quality. The text appears to be a formal memorandum or report, but the specific content cannot be discerned.]

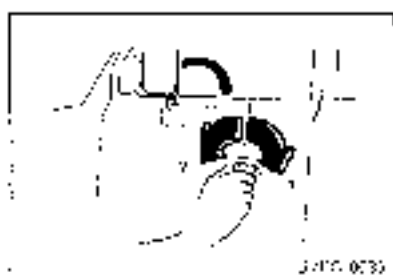


Key-locking and unlocking

- Doors
- Electric door locks
- Bonnet
- Backdoor
- Electric window control
- Sliding window
- Electronic immobilizer*

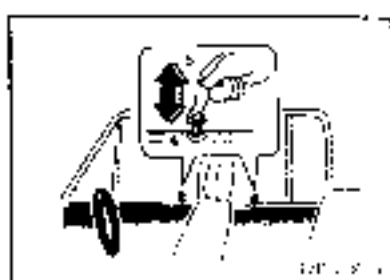
Doors

Operation from outside the vehicle



- 1 - Insert or remove the key
- 2 - Lock
- 3 - Unlock

Operation from inside the vehicle



- 4 - Lock
- 5 - Unlock

Push the inside handle forward you to open the door

To lock the front doors without a key



Set the inside lock button to the locking position. Be careful not to lock the doors when the key is inside the vehicle

To lock the rear doors

Set the inside lock button to the locking position and close the door

Electric door locks

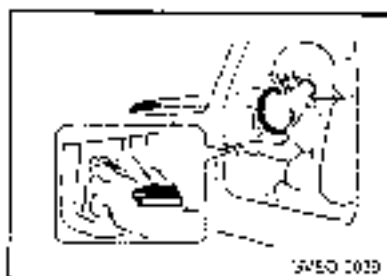


By using either the inside lock button or the key to lock or unlock the front driver's door, all of the doors can be automatically locked or unlocked.

- 1 - Lock
- 2 - Unlock

Bonnet

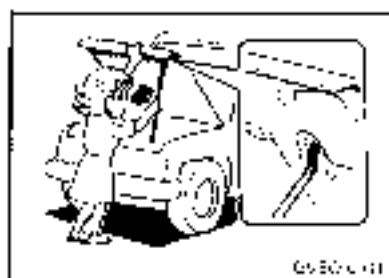
To open



Pull the release lever located on the left side of the dashboard to unlock the bonnet.



Hold on the bonnet while pressing the safety lock.



Support the bonnet by inserting the support bar in its slot.

To close

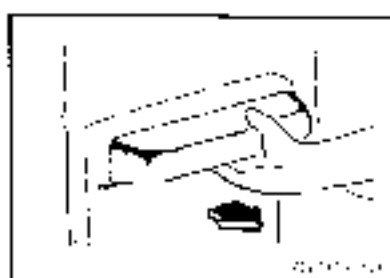
Unlock the support bar. Then lower and drop the bonnet. Make sure the bonnet is firmly locked in place.

Backdoor

Operation from outside the vehicle



1. Insert or remove the key
2. Turn
3. Unlock

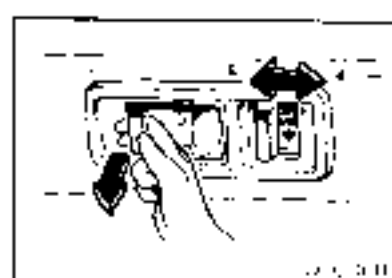


4. Pull the outside handle toward you to open the backdoor

CAUTION

If the back door is opened at night, the tail lamp will be concealed by the door, so take some measure to assure that the vehicle can be seen by vehicles approaching from behind.

Operation from inside the vehicle



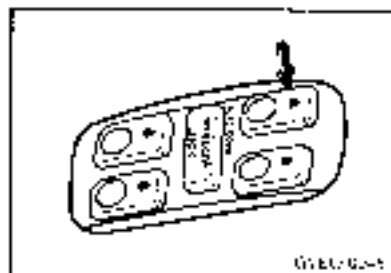
4. Pull
5. Unlock

6. Pull the inside handle toward you to open the back door

To lock the backdoor without a key

6. Pull the inside handle out to the locked position, and close the backdoor
- Be careful not to lock the backdoor when the key is inside the vehicle.

Electric window control



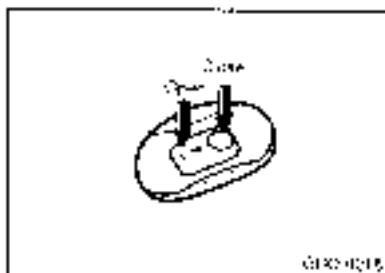
The electric window control panel is operated with the up or down 2 of the ON position.

Driver's switches

The driver's switches can be used to operate all door windows. A window can be opened or closed by pressing the corresponding switch.

Passenger's switches

The passenger's switches can be used to operate the corresponding passenger's door windows.



CAUTION

- (1) Be careful that head or hands are not trapped by a closing window.
- (2) To prevent injury, do not allow children to play with window control switches. When children are in the vehicle, make sure the window control lock switch is in the locked position.
- (3) If a child (or other person who might not be capable of safe operation of the electrical window switches) is to be left in the vehicle alone, always be sure to turn off the ignition and remove the key.

- (4) Never try to operate a driver's switch and a passenger's switch in opposing directions at the same time, the window will stop, and cannot then be opened or closed.

Sliding window

To open

Slide the window glass rearward while pressing the lock knob.

To close

Slide the window glass all the way into and automatically lock.

Electronic Immobilizer* (If installed)

The electronic immobilizer system is an anti-theft device designed to prevent and detect unauthorized use. It means that the engine can only be started with the user's own keys. In addition to the need for the key to match the lock mechanically, a special electronic component is integrated into the key.

NOTE

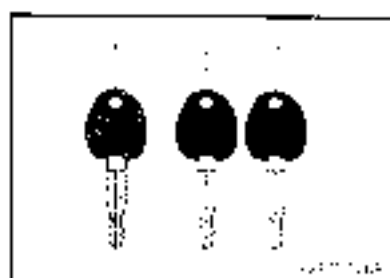
The electronic components integrated into the key could become damaged if treated violently and be rendered useless. It will then no longer be possible to start the engine with a key damaged in this way.

Obtaining a new key :

Replacement keys are only available from an authorized GALLOPFER dealer, which is obliged to check whether every person ordering such a key is authorized to use it.

An authorized GALLOPFER dealer is also able to block individual keys electronically (e.g. if lost), and restore them to use again. The engine cannot be started with a key that has been blocked.

Keys* (If electronic immobilizer installed)



1 ID key

This key must be used first to register a unique ID code in ICM. This key is not intended for everyday use.

2 Master key

This key is for general use. It will start all locks on your vehicle.

CAUTION

Don't lose your ID key or forget the password. Always keep your ID key at the designated place where you know and record your password.

If you don't have both of password and ID key, you can not get additional keys any more.

ICM: Immobilizer Control Module

Interior equipment

Front seats
Second seat
Third seats
Make second and third seats into bed
Head restraints
Heated seats*
Seat belts
Supplemental restraint (airbag) system "SRS" +
Adjustment of steering wheel height
Sun visors
Cigarette lighter
Ashtrays
Accessory boxes
Digital clock

Luggage securing hooks



Front seats

Adjust the seats by operating the levers as indicated by the arrows to move the seats in the desired position.

CAUTION

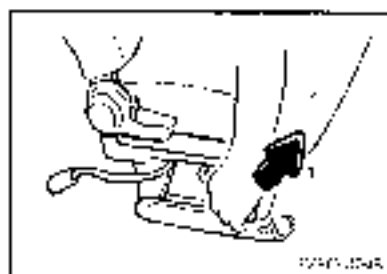
Never adjust the driver's seat while the vehicle is in motion.

- Adjustment: forward or backward



2 - Adjustment of seatback angle

To get in and out of the rear seat
[Short-wheel-based models]



1 - To get in



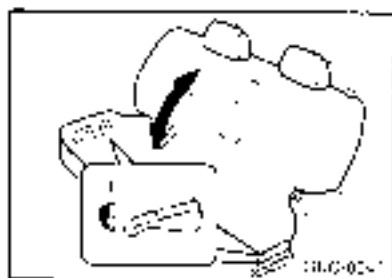
2 - To get out

CAUTION

When returning the seatback to its original position, be careful not to get hands, legs, etc., caught in the seat.

Second seat

Adjustment of seat



Adjust the seat by opening the handle in the direction of arrow to move the seat to desired position.

- 1 - Adjustment of seatback angle.

To get in and out of third seat



- 1 - To get in
- 2 - To get out



Fold down the side seatback by pulling the knob for the convenience of getting in or out of the third seat.

CAUTION

When passengers get in and out, they should watch their step carefully to avoid injuring themselves on the rear seat frame, springs, and other parts.

Folding the seat



Lower the head restraints all the way. Lock the seatback downward and forward by operating the knob.

NOTE

Before folding the seatback, be sure to lock the seat in the rearmost position.



1. Lift up the handle for folding the seat and fold the entire seat upward and forward until it locks.

CAUTION

Do not fold down the second seat when the third seat is used, because the projections on the backside of the second seat may be injurious.

Untoiling the seat



2. When pulling the lever on the side of the seat toward you, fold the seat down, and then raise the seatback.

Third seats

Adjustment of seat



3. Adjust the seats by operating the handles to raise the seats to desired positions.

Folding the seats

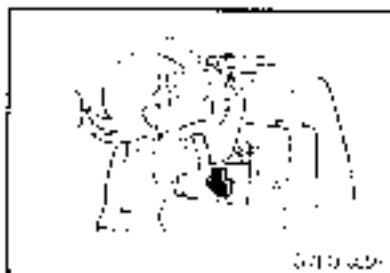


1. Press the lever and fold the seat back forward and down until it locks.



0-10-000*

2. When pulling back on the seat, fold the entire seat cushion.



0-10-000*

3. Push the lever up and back the belt into the assist strap. Lower the belt. Turn the dial to tighten the belt and secure the seat.

Unfolding the seats

1. Raise the belt pack to loosen the belt.
2. Detach the belt from the assist strap.
3. Unfold the seat by reversing the procedure used to fold it.

CAUTION

When unfolding the seats, be sure to unfold the leg down far enough.

Third seats (Side facing seats)



0-10-000*

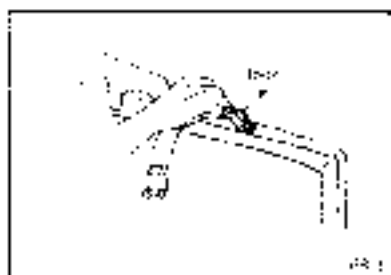
Folding the seats

Pull the seat as shown and raise the seat cushion.



0-10-000*

Fit to the leg underneath.



Arrow indicates the back of the seatback, as it is raised from the seat.

Make second and third seats into bed



As you do this, be sure you're at the correct seat. Repeat this seatback folding step all the way across the following row of seats.

1. Repeat either the first seat or second seat back folding step.
2. Fold the side seatback side panel down from the seatback.
3. Fold the second seat back down. As you fold the seatback down all the way, be pushing the second seat back to the rear of the vehicle to clear the aisle seat.

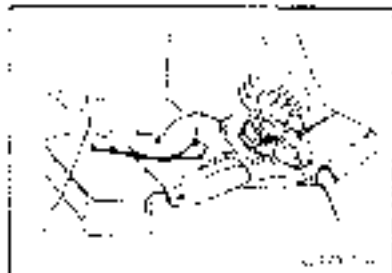


CAUTION

Folding down the seatback all the way when the side seatback is still secured to it could damage the side seatback.



To return the seat to the original position, press the lever. By doing so, the seat will move backward until it is securely locked. Do not operate lever. Do not operate when not required or returning the seat to the original position. Do not let seat walk forward when the seat is lock.



CAUTION

Do not walk around on top of the seats after they have been made into a bed. If you make a false step and your foot misses the seat, you could be injured. Always move around carefully and step only in the middle of the seats.

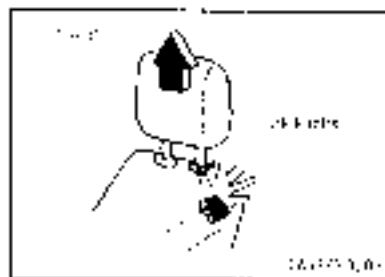
For technical reasons, the vehicle should not be driven with bed.

Head restraints

Adjustment of the head restraints

Adjust the head restraints height so that the center of the restraint is as close as possible to the back of the head at the level of the ears. The distance of about 100 mm is ideal.

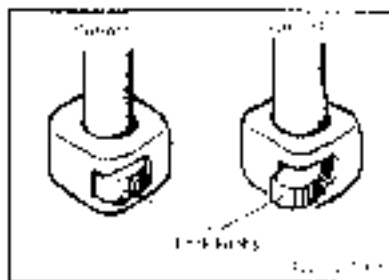
Removal of the head restraints



Front seats

The front headrests normally pass the lock keys with the seat adjusted by the driver. To adjust the headrests, lock the seat. The keys are used to lock the seat and then insert the lock keys into the back of the seat to adjust the lock.

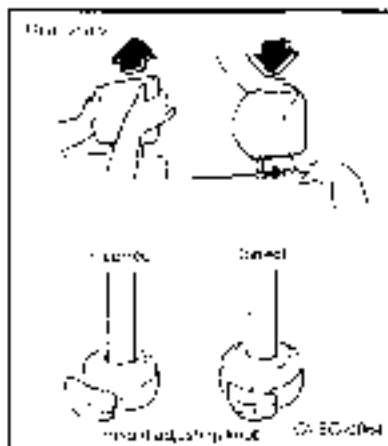
Confirm that the lock keys are correctly shown in the illustration, and also pull up on the head restraint to confirm that there is no movement out of the seatback.



CAUTION

It is dangerous to drive without or badly adjusted head restraints installed; always have them correctly mounted when using the vehicle.

Rear seats



To move the head restraints, press the height adjusting knobs in the direction indicated by the arrows and pull up on the restraints.

To check the head restraints, test confirm that they are facing the correct direction and then push them into the seatback and push down until they lock.

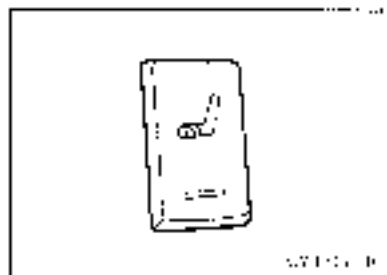
Caution that the height adjusting knobs are correct as shown in the illustration, and also call on the rear restraints to control that they do not come out of the seatback.

CAUTION

It is dangerous to drive without or badly adjusted head restraints installed; always have them correctly mounted when using the vehicle.

Heated seats*

The heated seats can be operated with the ignition switch in the ON position.



Seat belts

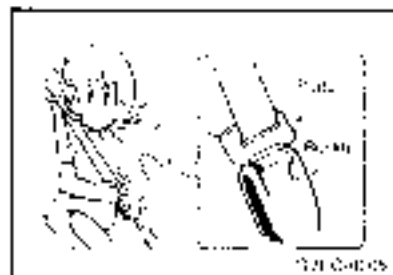
To protect you and your passengers in the event of an accident, it is most important that the seat belts be worn carefully when you drive.

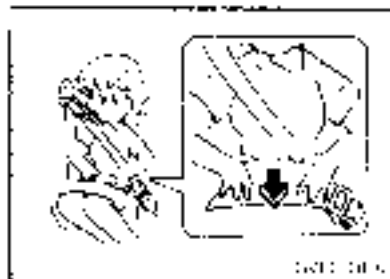
3-point seat belts

If you need to adjust the belt length, the belt becomes loose and tighter as the weight changes, it will lock automatically to hold the wearer in strong impact events.

To fasten the belt

Insert the clasp into the buckle until a "click" is heard.





CAUTION

- (1) Always position the lap portion of belt as low on the hipbone as possible.
- (2) The seat belts must not be twisted when worn.



Adjust any looseness by pulling the belt tightly.

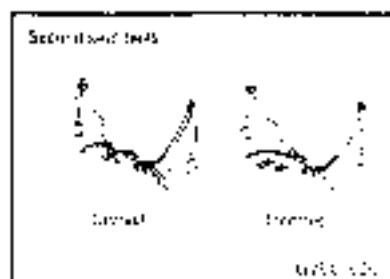
To unfasten the belt



Prevent the buckle from catching on the clothing.

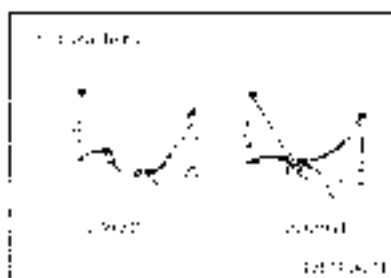
NOTE

The seat belt will rewind automatically. Pull the seat belt out slowly and gradually.



CAUTION

- (1) When the tongue plate is connected to the buckle, do not mix up the left, right or center the buckle. Use the proper buckle as shown in the figure.
- (2) Do not fold down the side seatback of the second seat when the second seat belt is used, because the seat belt will be interfered with the side seatback and will not operate properly.



Handling seat belts



CAUTION

- One seat belt should be used by only one person. Doing otherwise can be dangerous.

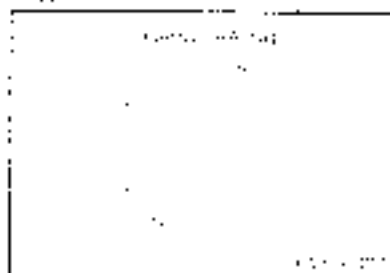
- When driving with children, they should be seated in the rear seat, and wear up belts. For an infant, a child safety seat should be used. The regulations concerning driving with children in the front seat may differ from country to country. It is recommended that you obey the pertinent regulations.
- Pregnant woman should use 3-point type seat belt whenever possible. The lap belt should be worn as low as the hips, but not across the waist.

Seat belts inspection

- Check the seat belt regularly and keep it working properly. A kind of an informed related check can be done by a dealer.
- Always test all the items with the help of your dealer or a qualified technician. When making a check, always follow the steps.
 - Check the upper anchor. Also check the belt, because the difficulty can change the same.
- Seat belt is not to be used in any case of a crash. The belt should be replaced if they appear damaged. Do not use damaged belts even when you are not a driver. Be sure to check the belt and the buckles with the dealer.

Supplemental restraint (airbag) system "SRS" (if installed)

<type A>



Your vehicle is equipped with Supplemental Restraint System (SRS). The SRS consists of the system components and the SRS air bag. The SRS air bag is located in the center of the seat.

The SRS consists of inflatable airbags that deploy from the center of the seat. The purpose of the SRS is to reduce the risk of injury or death in the event of a crash. The SRS is designed to work in conjunction with the seat belt system. Always wear your seat belt and do not drink and drive.

NOTE

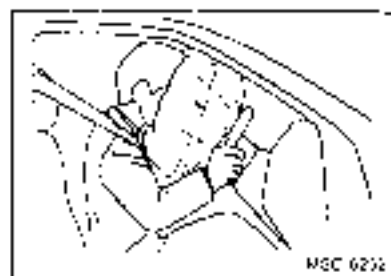
For more information about the SRS, refer to the SRS label on the back of the driver's seat.

WARNING

- (1) The SRS is designed to work with, and be supplemental to, the driver's three-point seat belt system and is not a substitute for it. Therefore, your seat belts must be worn at all times while the vehicle is in motion. In addition, the airbag deploys only in certain frontal impact conditions severe enough to likely cause significant injury to the vehicle occupants.
- (2) The SRS is designed to deploy the airbag only when an impact is sufficiently severe and will not deploy in side, rear, or rollover impacts. Additionally, the airbag will only deploy once. Thus, seat belts must be worn at all times.
- (3) For maximum safety protection in all types of crashes, all occupants including the driver should always wear their seat belts whether or not an airbag is also provided at their seating position to minimize the risk of severe injury or death in the event of a crash. Do not sit or lean unnecessarily close to the airbag while the vehicle is in motion.

- (4) The SRS airbag system must deploy very rapidly to provide protection in a crash. If an occupant is out of position because of not wearing seat belt, the airbag may forcefully contact the occupant causing serious or fatal injuries.

SRS Component and Functions*



The SRS consists of the following components:

- Driver Side Airbag Module
- SRS Service Reminder Indicator (SRI)
- SRS Control Unit (SRSCU)

The SRSCU continually monitors all alarms while the ignition is "ON" to determine if a frontal or near frontal impact is severe enough to initiate airbag deployment.

The SRS service reminder indicator (SRI) on the instrument panel will blink 6 times after the ignition key is turned to the "ON" position or after the engine is started, and then the SRI should go out.

The airbag module is located in the center of the steering wheel.

When the SRSCU detects a possible near-impact to the front of the vehicle, it will automatically deploy the airbag.

Upon deployment, the airbag will inflate rapidly into the pad covers, which regulate the air pressure from the expansion of the airbag. Further expansion of the covers then allows full inflation of the airbag.

A fully inflated airbag in combination with a properly worn seat belt saves the chances of a forward motion, thus reducing the risk of head or chest injury.

After complete inflation, the airbag will gradually deflate, enabling the driver to maintain forward visibility.

SRS care

The service work on the SRS components are performed by only an authorized GALLOPER dealer and some are tasks that you can safely service by yourself. The entire SRS system must be inspected by an authorized GALLOPER dealer 10 years after the date that the vehicle was manufactured.

Any work on the SRS system, such as removing, installing, repairing, or any work on the steering wheel must be performed by a

qualified GALLOPER dealer. Improper handling of the SRS system may result in serious personal injury.

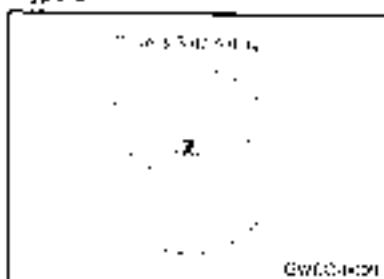
WARNING

- (1) Modification to SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure, can adversely affect SRS performance and lead to possible injury.
- (2) For cleaning the airbag pad covers, use only a soft, dry cloth or one which has been moistened with plain water. Sovents or cleaners could adversely affect the airbag covers and proper deployment of the system.
- (3) No objects should be placed over or near the airbag module on the steering wheel, because any such object could cause harm if the vehicle is in a crash severe enough to cause the airbag to inflate.
- (4) If the airbag inflates, they must be replaced by an authorized GALLOPER dealer.
- (5) If components of the airbag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed. Your GALLOPER dealer knows these precautions and can give you the necessary information. Failure to follow

these precautions and procedures could result in the risk of personal injury.

- [6] If you sell your vehicle, be sure to inform the new owner of these important points and make certain that this manual is transferred to the new owner.
- [7] If your car was flooded and has soaked carpeting or water on flooring, you shouldn't try to start engine; have the car towed to authorized GALLOPER dealer.

<Type B>



This vehicle is equipped with a Supplemental Restraint (Airbag) System. The indications of the system's presence are the letter "SRS AIR" airhosted on the airbag located in the steering wheel.

The SRS consists of airbag installed under the dashboard in the center of the steering wheel. The purpose of the SRS is to provide the vehicle driver with additional restraint that that allowed by the seat-belt system alone in case of a frontal impact of sufficient severity.

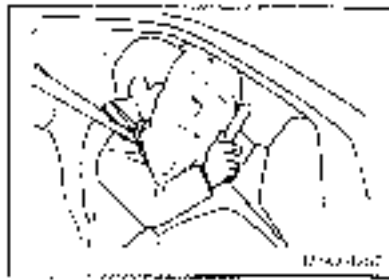
NOTE

Be sure to read information about the SRS on the labels provided on the backside of the sun visor.

WARNING

- (1) The SRS is designed to work with, and be supplemental to, the driver's three-point seat belt system and is not a substitute for it. Therefore, your seat belts must be worn at all times while the vehicle is in motion. In addition, the airbag deploys only in certain frontal impact conditions severe enough to likely cause significant injury to the vehicle occupants.
- (2) The SRS is designed to deploy the airbag only when an impact is sufficiently severe and will not deploy in side, rear or rollover impacts. Additionally, the airbag will only deploy once. Thus, seat belts must be worn at all times.
- (3) For maximum safety protection in all types of crashes, all occupants including the driver should always wear their seat belts whether or not an airbag is also provided at their seating position to minimize the risk of severe injury or death in the event of a crash. Do not sit or lean unnecessarily close to the airbag while the vehicle is in motion.
- (4) The SRS airbag system must deploy very rapidly to provide protection in a crash. If an occupant is out of position because of not wearing seat belt, the airbag may forcefully contact the occupant causing serious or fatal injuries.

SRS Component and Functions*



The SRS consists of the following components:

- Driver's side Airbag, Model P
- SRS Service Reminder Indicator (SRF)
- SRS Control Unit (SRS ECU)

The safety pretense is located in the center of the steering wheel. When the SRS ECU detects a considerable impact to the front of the vehicle, it will automatically deploy the airbag.

Upon deployment, the seat belts induced in 100% and the seat covers will separate under pressure from the expansion of the airbag. Further opening of the covers that allows full inflation of the airbag. A fully inflated airbag is comparable with a

plyboard with seat materials as the cover is being inflated. Thus, to prevent the risk of being crushed injury. After complete inflation, the inflated airbag may start deflating, moving into the driver's cushion forward slightly.

WARNING

- (1) **Never** to try to fix the object (ornament) materials, stickers etc. to the cushioned covering in the steering wheel. It's possible thereby to hurt the driver when the airbag is pumped up.
- (2) **Never** to try to fix the object in the windscreen. It's possible that the object could hinder the remove of airbag or be thrown towards passengers and they could be heated thereby so seriously.
- (3) **Some** components of airbag system get heated by the pumping-up of airbag system. Don't touch therefore these components after the pumping-up.

SRS warning lamp*



The SRS warning lamp on the instrument panel will blink for a short period after the ignition key is turned to the "ON" position, after the system has been checked by the SRS control unit successfully.

WARNING

The following cases means that there is problem with the system. Immediately have it checked by an authorized GALLOPER dealer.

- When the warning lamp stays on after turning the ignition switch on.
- When the warning lamp goes on while driving.
- When the warning lamp does not light up after the ignition key is turned to the "ON" position.

SRS care

The correct work of the SRS components can be impaired by dirt on the airbag and GALLOPER cover. The airbag and GALLOPER cover should be cleaned by you. You should do this work by yourself. The work on the SRS system must be inspected by an authorized GALLOPER dealer. It is dangerous for the user that the vehicle was not fully cleaned.

Any work on the SRS system, such as the cleaning, results, impairment of any work on the steering wheel must be performed by an authorized GALLOPER dealer. Improper handling of the SRS system may result in serious personal injury.

WARNING

- (1) Modification to SRS components or wiring, including the addition of any kind of badges to the pad covers or modifications to the body structure, can adversely affect SRS performance and lead to possible injury.
- (2) For cleaning the airbag pad covers, use only a soft, dry cloth or one which has been moistened with plain water. Solvents or cleaners could adversely affect the airbag covers and proper deployment of the system.
- (3) No objects should be placed over or near the airbag modules on the steering wheel because any such object

could cause harm if the vehicle is in a crash severe enough to cause the airbag to inflate.

- (4) If an airbag inflates, they must be replaced by an authorized GALLOPER dealer.
- (5) If components of the air-bag system must be discarded, or if the vehicle must be scrapped, certain safety precautions must be observed your GALLOPER dealer knows these precautions and can give you the necessary information. Failure to follow these precautions and procedures could increase the risk of personal injury.
- (6) If you sell your vehicle, be sure to inform the new owner of these important points and make certain the this manual is transferred to the new owner.
- (7) If your vehicle has to be broken, you should bring it to an authorized GALLOPER dealer in order to deactivate the SRS.
- (8) If your car was flooded and has soaked carpeting or water on flooring, you shouldn't try to start engine. Have the car towed to a authorized GALLOPER dealer.

Adjustment of steering wheel height



The height of steering wheel in your vehicle can be adjusted to get you the best view and grip on driving. While supporting the steering wheel with one hand, pull the lever upward and then adjust the steering wheel to the most suitable position.

After the adjustment is completed, the lever will automatically return when it is released, but the lever should be moved even further downward to secure it completely.

If the lever does not return automatically when released, or stops part way down, it may be jammed by sticking the steering wheel up and down.

WARNING

Do not adjust the height of steering wheel while you are driving the vehicle.

Sun visors

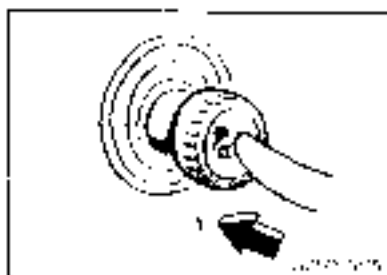


- 1 - To eliminate front glare



- 2 - To eliminate side glare

Cigarette lighter



The cigarette lighter can be used while the ignition switch is in either "ON" or "ACC".

- 1 - Push all the way in

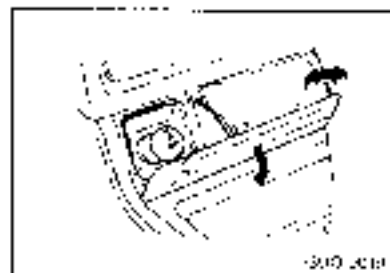
The lighter will automatically return to its original position with a "click" when ready to be pulled out for use.

CAUTION

- 1 - Do not touch heating element or lighter housing. Hold at the knob only.
- 2 - Something is wrong with the cigarette lighter if it does not pop back out within approximately 30 seconds of being pushed in. Leaving the cigarette lighter pushed in for an extended period could cause a fire. If it does not pop out by itself, pull it out and have the problem corrected at a GALLOPER dealer.

Ashtrays

Front ashtray



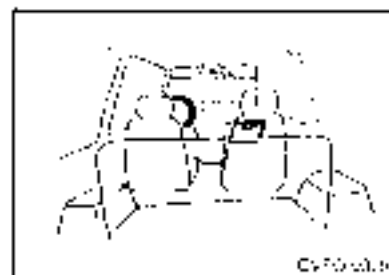
The ashtray is located on the front edge of the seat.
The front ashtray may be opened by pulling out by its top edge.
To ensure the ashtray is empty or clean it pull it all the way out.

Rear ashtrays



Push the ashtray downward to open. To remove the ashtray, pull it out while pressing the stubber.

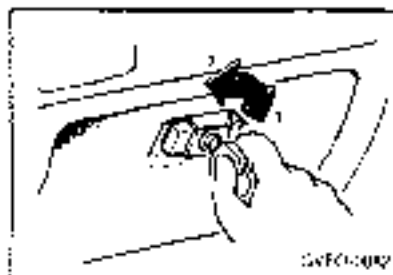
Accessory boxes



Various small articles can be kept in these.

1. Storage boxes

Glove box

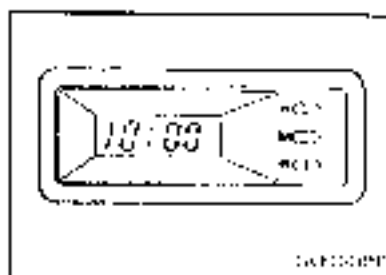


- 1 - To lock *
- 2 - To unlock *



- 3 - To open, push both buttons

Digital clock

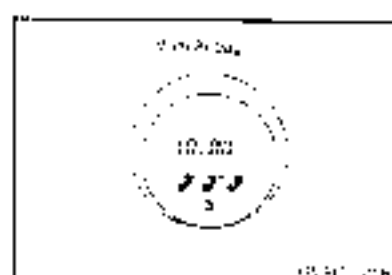


How each button works:

- H - To adjust the hour, push this button
- M - To adjust minutes, push this button
- CLR - To clear away minutes display in order to set the correct time, push this button

Example

- 10:50 - 11:50 changes to 11:00
- 11:30 - 12:29 changes to 12:00

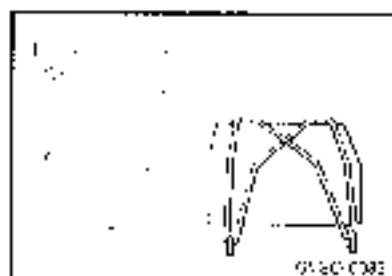


- T - To change from the analogue to clock, push this button
- * Vehicles with airbag system *

NOTE

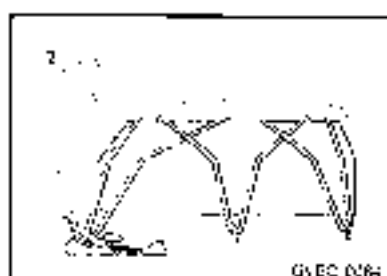
If the battery cables are disconnected during repairs or for any other reason, reset the clock to the correct time after the cables are reconnected.

Luggage securing hooks



There are four hooks on the front of the luggage compartment for use in securing luggage.

- 1 - For small items.



- 2 - For large items.
Fold down the rear seat. The luggage can be secured more firmly if the seat bracket holder is also used.

MEMO

[The body of the document contains several lines of text that are extremely faint and illegible due to the low quality of the scan. The text appears to be a formal memorandum or report, but the specific content cannot be discerned.]

For pleasant driving

Heating and ventilation

Air conditioning operation *

Rear air conditioner *

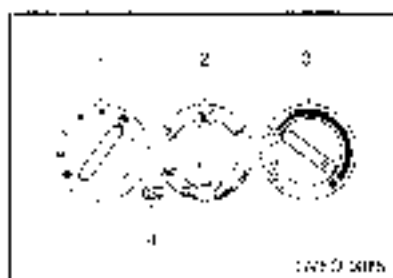
Rear heater *

Ventilators

Radio & Cassette tape player

HEATING AND VENTILATION

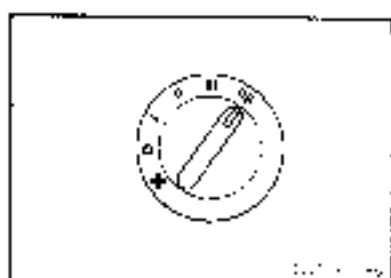
Rotary Type



This knob has four controls for the heating and cooling system they are:

- 1 Fan speed control
- 2 Air flow control
- 3 Temperature control
- 4 Air intake control

FAN SPEED CONTROL (BLOWER CONTROL)



This is used for the 'on' (fan on) and 'off' to select the fan speed.

The blower fan speed, and therefore the volume of air delivered from the system, may be controlled manually by turning the speed control between the 'I' and 'III' position.

AIR INTAKE CONTROL



This is used to select fresh outside air or to recirculate inside air.

- Fresh
- Recirculation

With the 'fresh' control selected, air enters the vehicle from outside and is heated or cooled according to the current function selected.

With the 'recirculation' control selected, air from within the vehicle compartment is drawn through the heating system and re-circulated according to the current function selected.

NOTE

It should be noted that prolonged operation of the heater in recirculation mode will give rise to a buildup of the windshield and side windows and the air within the passenger compartment becoming stale. In addition, prolonged use of the air conditioner with the "Recirculation" mode selected may result in the air within the passenger compartment becoming excessively dry.

AIR FLOW CONTROL



This is used to direct the flow of air which is directed to the face, dashboard outlets, or windshield. The settings are as follows: Face, Floor, Defrost, Fresh, Recirculation, and Defrost/Recirculation.

Face-Level

Selecting the "Face" mode will cause air to be discharged through the face level vents.

Bi-Level

Air is discharged through the face vents and the floor vents. This makes it possible to have cool air from the dashboard vents and warm air from the floor outlets at the same time.

Floor-Level

Air is discharged through the floor vents.

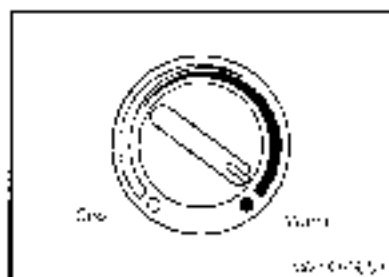
Floor-Defrost Level

Air is discharged through the windshield defrost vents and the floor vents.

Defrost-Level

Air is discharged through the windshield defrost vents.

TEMPERATURE CONTROL



This is used to turn the heater on and off and to set the degree of heating desired.

HEATING CONTROLS

For normal heater operation, move the air intake control to the "Fresh" position and the air flow control to "Floor".

For faster heating, the air intake control should be in the "Recirculation".

If the windows fog up, move the air flow control to the "Defrost" position and the air intake control to "Fresh".

For maximum heat, move the temperature control to "Warm".

BI-LEVEL HEATING

Your vehicle is equipped with bi-level heating controls. This makes it possible to have cool air from the dashboard vents and warm air from the foot outlets at the same time. To use this feature:

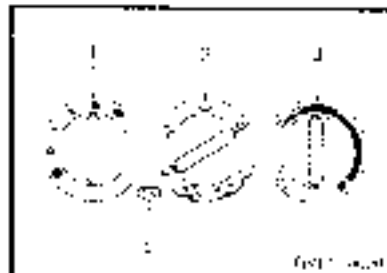
1. Set the air intake control to "Fresh".
2. Set the air flow control at the "Bi-Level" position.
3. Set the temperature control between "Cool" and "Warm".

VENTILATION

To operate the ventilation system:

1. Set the air intake control on "Fresh".
2. To direct all outside air to the dashboard vents, set the air flow control to "Face".
3. Adjust the fan speed control to the desired speed.
4. Set the temperature control between "Cool" and "Warm".

DEFROSTING/DEFOGGING



To use the heating/ventilation system to defrost or defog the windshield:

1. Set the air intake control (1) to the "Fresh" position.
2. Set the air distribution control (2) to the "Defrost" position.
3. Set the temperature control (3) to a comfortably warm position.
4. Set the fan speed control (4) to position "1" or "2".
5. If vehicle is so equipped, turn on the A/C to increase defogging action.

NOTE

In high humidity areas, the A/C can be used with the air intake in the "Regulator" position to increase defogging action.

Operation Tips

1. To keep dust or cigarette fumes from entering the car through the ventilation system, temporarily set the air intake control to "Recirculate". Be sure to return the control to "Fresh" when the cigarette has burned to keep fresh air in the vehicle. This will help keep the interior cool and comfortable.
2. Air for the heating/ventilation system is drawn in through the grille just ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.

AIR CONDITIONING OPERATION (If installed) COOLING



To use the air conditioner to cool the car:

1. Set the side vent control to "OFF" to shut off outside air only.
2. Turn on the fan control switch.
3. Turn on the air conditioner switch by pushing it in the center. The air conditioner indicator light should come on at the same time.
4. Set the air intake control to "Fresh".
5. Set the temperature control to "COOL" (Cool provides maximum cooling). The temperature may be lowered by the control toward "ASSET".
6. Adjust the fan control to the desired speed. For maximum cooling, use the fan control to one of the higher speeds or temporarily select the "Recirculate" position on the air intake control.

DEHUMIDIFIED HEATING



To use dehumidified heating:

1. Turn on the fan control switch.
2. Turn on the air conditioner switch. The air conditioner indicator light should come on at the same time.
3. Set the air intake control to "Fresh".
4. Set the air flow control to "Face".
5. Adjust the fan control to the desired speed. For more rapid action, set the fan at one of the higher speeds.
6. Temporarily select the temperature control to provide the desired amount of warmth.

Notes concerning air conditioner operation

1. Park the vehicle in the shade. Parking under the hot sun will make the car interior extremely hot and it will require a long time to cool the interior. It is not necessary to park in the sun when the windows for the first few minutes of air conditioner operation to expel the hot air.
2. Close the windows when the air conditioner is used. The amount of outside air through open windows will reduce the cooling efficiency.
3. When driving at low speeds, shift down to increase the engine rpm. If you shift down slowly in heavy traffic, shift to a lower gear to increase the engine rpm in order to obtain better efficiency and avoid overheating the engine.
4. On steep grades, turn the air system control to avoid the possibility of the engine overheating.

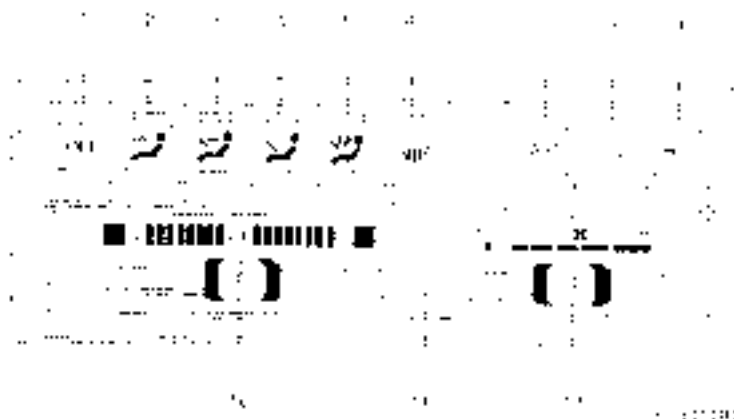
Operation hints

The air conditioner not only cools the air, but also dehumidifies it, thus offering greater comfort. Too much cooling is not good for the health. The air temperature should be 5 to 6°C (9 to 11°F) lower than the outside air to the extent that you feel comfortable.

During a long period of disuse

The air conditioner should be operated for at least 15 minutes each week, even in cold weather. This is to prevent poor lubrication of the compressor, moving parts and to maintain the air conditioner in the best operating condition.

AUTOMATIC HEATING AND COOLING CONTROLS (If installed)



Your vehicle equipment will use a dual zone heating and cooling system controlled by two safety sets of desired temperature.

Semi-Automatic Temperature Control Features

BUTTON INTERLOCKS-Depressing a button in an interlock group will cause the other button to latch and will operate the previously selected button.

OFF-SET button will operate a two-zoneable system only.

TEST SAFETY OVERRIDE-For safety and detection, testing of the fresh air filter will automatically disable during the test button will permit the system to outside air.

OVERRIDE DEFERLOCKS: The Climate Control buttons appropriately override lock conditions and weather features. When the override button is pushed, the radio, lock, and outside air flow control are locked.

INDICATORS: When the instrument panel indicators are on, the radio, satellite, and easy air functions are illuminated indicators on the instrument panel.

HEATING/COOLING: The Climate Control System is equipped with a temperature control system that regulates the air flow and temperature of the heating and cooling systems.

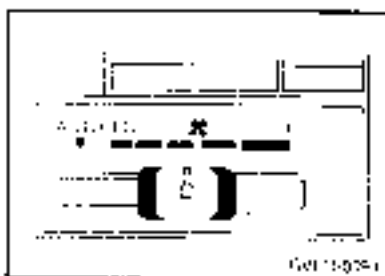
TEMPERATURE ADJUSTMENT/CONTROL LEVELS: The climate control system has a range of temperature adjustment. The climate control system has a range of temperature adjustment. The climate control system has a range of temperature adjustment.

1. On button
2. Fan button
3. Recirculate button
4. Fresh button
5. Temperature control button
6. Defrost button

7. Air control panel button
8. Heat/defrost button
9. Fresh button
10. Temperature control button
11. Defrost LED light air and defrost
12. Power window button

BLOWER CONTROL

Automatic Blower Control



Automatic blower operation varies from low to high fan speed to add air to the system. The fan speed is controlled by the fan speed control button on the instrument panel.

Manual Blower Control

Continuously variable manual blower speed control.

NOTE

If you want to operate rapid cooling or rapid heating, the level on the instrument panel mode.

AIR INTAKE CONTROL



This allows you to select fresh outside air to recirculate inside the vehicle. Push the button to get the proper interior conditions.

NOTE

If any air flow control buttons are not pushed and also inside & outside buttons are not pushed, will be automatically operated in condition of fresh outside air. If DEFROST button pushed it also selects automatically fresh outside air without selecting the flow control buttons.

AIR FLOW CONTROL BUTTONS



This is used to turn the fan on and off and direct the flow of air. Air can be directed to the face, dash, rear outlets or windows. Six symbols are used to represent OFF, FACE, FEET/LEVEL, FLOOR, FLOOR/DEFROST and DEFROST.

To use the automatic heating and cooling system, you first should push the one of these buttons except OFF button.

In case of OFF button pushed in, you can not push the air conditioner switch button and the air flow control buttons. This is a normal condition.

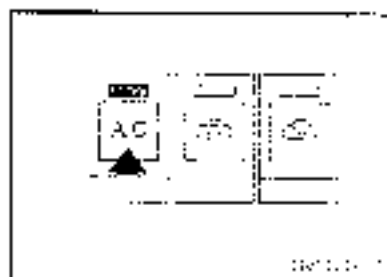
NOTE

OFF button is pushed, be automatically operated in condition of inside air flow.

TEMPERATURE CONTROL

This is used to set the desired temperature. The numbers on the face button indicate the category of temperature adjustment.

AIR CONDITIONER BUTTON



This is used to turn the air conditioner on and off. To turn the air conditioner on, push the button to turn it on, push the button again.

NOTE

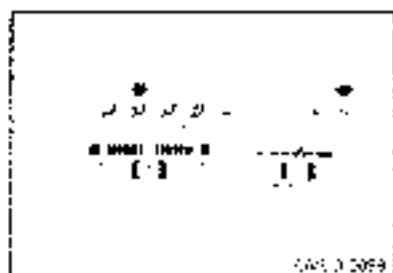
In case of OFF button pushed in, the air conditioner switch button does not engage. This is a normal condition.

HEATING CONTROLS



1. For normal heater operation, put the air intake control button to the "FRESH" position and put the mode door control button to the "FLOOR" position. For faster heating, put the air intake control button to the "FRESH/CIRCULATION" position. If the windows fog up, put the mode door control button to the "DEFROST" position.
2. For the most comfortable interior setting, move the temperature control lever to the desired position and the blower control lever to the desired position.

BI-LEVEL HEATING

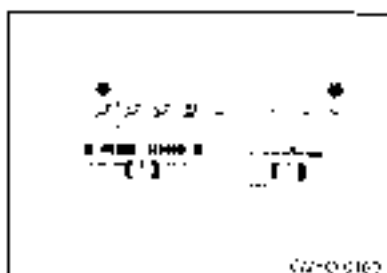


This makes it possible to have control from the dashboard vents and distribute air from the floor outlets at the same time.

To use this feature:

1. Select the On-off mode door control button.
2. Turn off the air conditioner switch.
3. Set the air intake control to "FRESH".
4. For the most comfortable interior setting, move the temperature control lever to the desired position and the blower control lever to the desired position.

VENTILATION



To operate the ventilation system:

1. For the air intake control to "FRESH".
2. To direct all outside air to the dashboard vents, set the air flow control to "FACE".
3. For the most comfortable interior setting, move the temperature control lever to the desired position and the blower control lever to the desired position.

DEFROSTING/DEFOGGING



To use the heat regulation system to defrost or defog the windshield:

1. Push the "DEFROST" mode control button.
2. For the most comfortable interior setting, move the temperature control lever to the desired position and the blower control lever to the desired position.

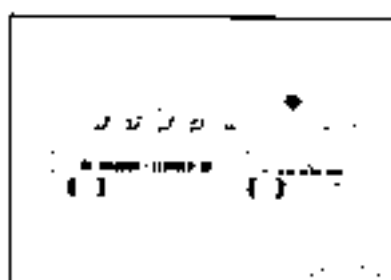
OPERATING TIPS

- a. To keep dust or unpleasant fumes from entering the car through the ventilation system temporarily select the "OFF" mode and control button. Be sure to return the switch to "FRESH" when the situation has passed to keep fresh air in the vehicle. This will help keep the driver alert and comfortable.
- b. Air for the heating/cooling system is drawn in through the grille set ahead of the windshield. Care should be taken that these are not blocked by leaves, snow, ice or other obstructions.

NOTE

When driving with "OFF" mode and control button selected, the wipers with radar and cruise and then Lower control is stopped and blend door opens is stopped.

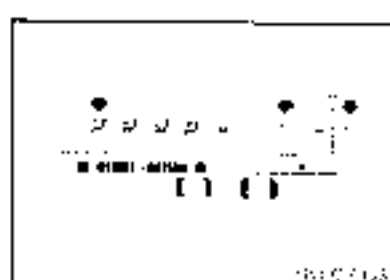
COOLING CONTROLS



To use the climate control to cool interior:

- a. Select one of the mode and control buttons except "OFF" button. For example, select the "FRESH" mode and control button.
- b. Turn on the air conditioner panel switch by pushing in on the button.
- c. For normal air conditioning operation, select the "CIRCULATE" mode control button. For faster cooling, select the "DEFROST/CIRCULATE" mode control button.
- d. For the most comfortable climate, they move the temperature control knob to the desired degree and the blower control knob to the desired position.

DEHUMIDIFIED HEATING



For dehumidified heating:

- a. Select one mode and control button.
- b. Turn on the air conditioner switch by pushing in on the button.
- c. Select the dehumidified heating button.
- d. Move the blower switch to the desired speed. For more rapid action, move the blower switch to one of the higher speeds.
- e. Move the temperature control knob to provide the desired amount of warmth.

Rear air conditioner *

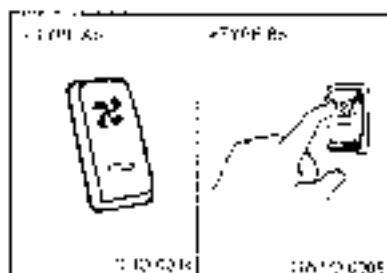


The rear air conditioner operates only when the front air conditioner is in operation.
The rear air conditioner switches at the rear of the center console.

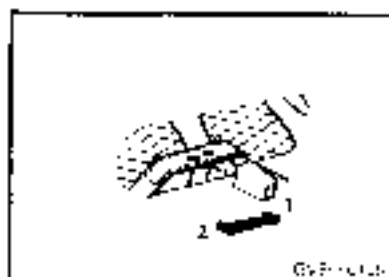
1. Rear air conditioner switch
Slide the rear air conditioner switch to operate the rear air conditioner.
There are four fan speeds for control of the amount of airflow.

The rear air conditioner can only be used for cooling. For conditions such as defogging, defrosting, or air circulation the front air conditioner should be used.

Rear heater †



The rear heater can be operated when the control switch is at the "ON" position.
The maximum temperature inside while the rear heater is on (E.U. only).



Set the rear heater lever under the over-ride to the "OPEN" position.

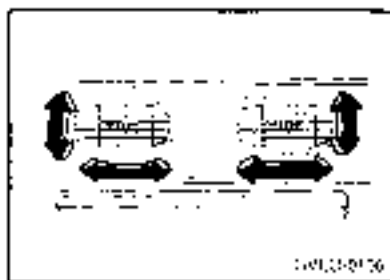
- 1 - SHUT
- 2 - OPEN

NOTE

When engine coolant temperature is low, output air will be cool.
Set the lever to the "SHUT" position when the rear heater is not in use.

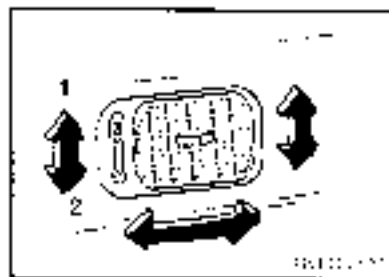
Ventilators

Centre ventilators



Air will flow from the ventilator when the mode selection lever is set to the 'Auto' position and the fan is switched on. Adjust the direction of the airflow by moving the louvers.

Side ventilators

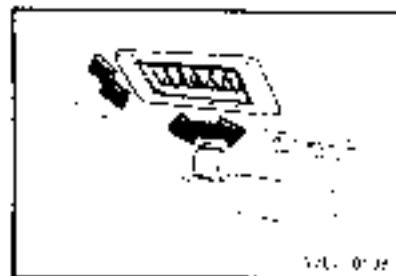


Air will flow from the ventilator when the mode selection lever is in the 'Open' position.

- 1 - Open
- 2 - Close

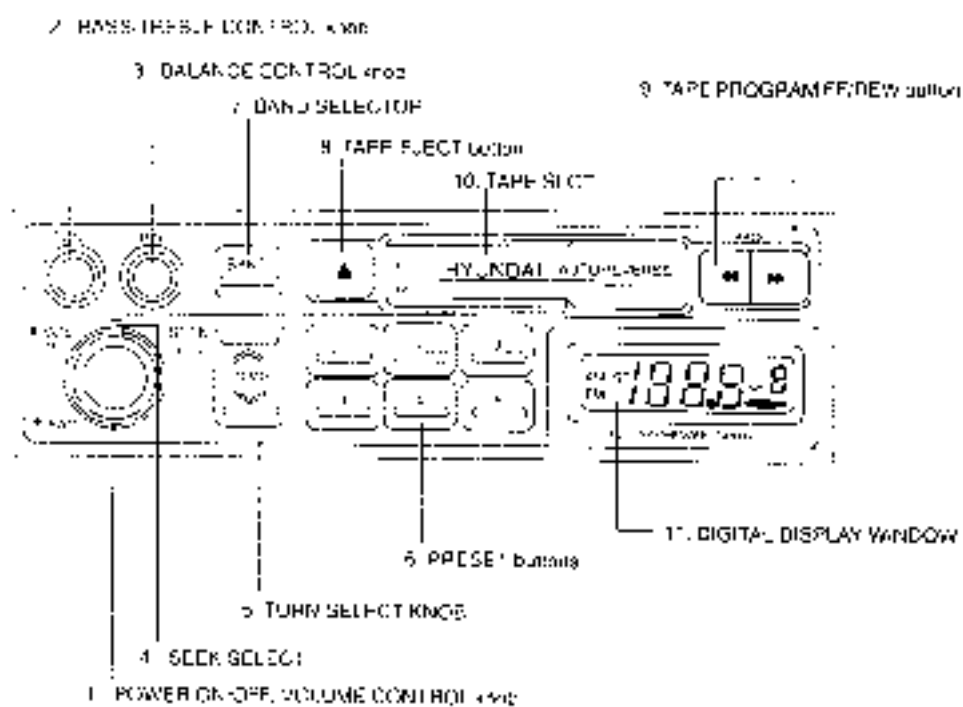
The amount of airflow is affected by the wind which will blow into the ventilator when it is open. Adjust the direction of the airflow by moving the louvers.

Roof slide ventilators *



Air will flow from the ventilator when the motor conditioner is switched on. Adjust the direction of the airflow by moving the louvers.

CASSETTE TAPE PLAYER OPERATION (HMC-600) (If Installed)



CS-EC-1102

1. POWER ON/OFF, VOLUME CONTROL knob

The radio unit may be operated when the ignition key is in the "ACC" or "ON" position.

Rotate the knob clockwise to switch the radio unit on, and to increase the volume. Turn to the stop position clockwise to reduce the volume, and to switch the radio unit off.

2. BASS-TREBLE CONTROL

Press to pop the knob out, and turn to the left or right for the desired bass tone.

3. BALANCE CONTROL

Press to pop the knob out and turn clockwise to equalize clockwise until sound from the left and right speakers is about equal from your listening position.

4. SEEK OPERATION (Automatic Channel Selection)

When the volume control knob is pressed the unit will automatically tune to the next higher frequency.

5. TUNE (Manual) SELECTION

When the upper side of the knob is pressed, the frequency will increase in 0.1 MHz steps. For band 2 MHz in AM1 and 400 kHz in AM2.

With the knob held down for 5 seconds or more, the scan signal must be made wave or a signal, and the next station continues.

6. PRESET buttons

Six (6) stations for AM and FM bands, only can be preset in the electronic memory circuit on this unit.

HOW TO PRESET STATIONS

Six AM and twelve FM stations may be programmed into the memory of the radio. This is done by simply pressing the band select button and one of the six station select buttons. To program the stations, follow these steps:

- a. Press band selector to set the band for AM, FM1 and FM2.
- b. Select the desired station to be stored by seek, scan or manual tuning.
- c. Determine the preset station select button you wish to use to access that station.

- d. Press the station select button (designated by the band) the station you are tuning with seek button you have determined. The frequency display will flash after 1 has been stored into the memory. You should then release the button and use seek to program the next desired station. A total of 18 stations can be programmed by selecting the AM and two FM stations for each band.
- e. When completed, any preset station memory recalled by selecting AM, FM1 or FM2 band and the appropriate Station button.

7. BAND SELECTOR

Pressing the BAND button changes the AM, FM1 and FM2 bands. The selected is displayed on LCD.

8. TAPE EJECT BUTTON

To eject the tape, press the button.

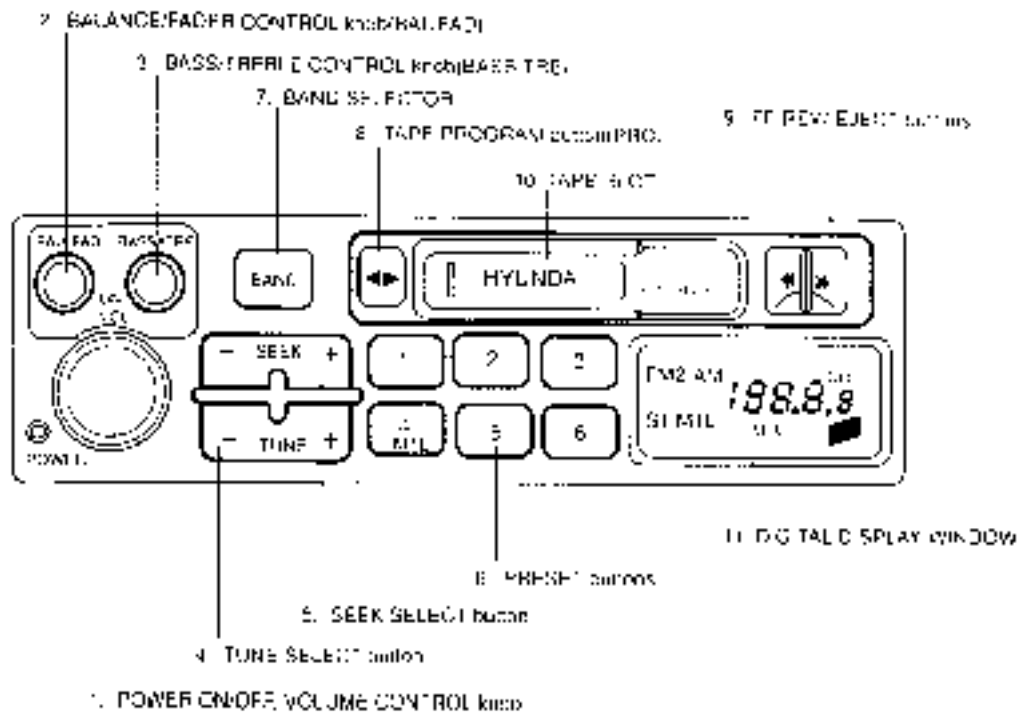
9. TAPE PROGRAM

When you press the button whose arrow is in the same direction as the tape play arrow on the display the tape will advance at high speed.

When you press the button whose arrow is in the opposite direction to the tape play arrow on the display the tape will rewind at high speed. To stop FF or RRW action, press the stop button.

When you press two buttons simultaneously you press the reverse side of the tape and it will appear to be displayed in the reverse direction.

CASSETTE TAPE PLAYER OPERATION (H 810) (If installed)



5/20/01/10

1. POWER ON/OFF, VOLUME CONTROL knob

The radio can only be operated when the ignition key is in the "ACC" or "ON" position. Rotate the knob clockwise to switch the radio on. Turn and to increase the volume. Turn the knob counterclockwise to reduce the volume and to switch the radio and off.

2. BAL (Balance Control) knob

Press down on knob with long push. Turn the control knob clockwise to emphasize the right speaker sound and counter-clockwise to emphasize the left speaker sound. When the control knob is turned down (clockwise or left speaker sound will be emphasized) a left speaker sound will be attenuated.

FADER (Fader Control) knob

Further pull knob position of a speaker knob. Turn the control knob clockwise to emphasize the right speaker sound and counter-clockwise to emphasize the left speaker sound. When the control knob is turned down (clockwise or left speaker sound will be emphasized) a right speaker sound will be attenuated.

3. BASS CONTROL knob

Press to pop the knob out and turn to clockwise right for the desired bass tone. **TREBLE CONTROL knob** Further pull knob position of popped up knob. Turn to the right for the desired treble tone.

4. TUNE (manual) Selection

Press the up side to increase or to decrease the frequency. With the button held down for 10 seconds to receive a strong signal for broadcasting radio wave in a narrow band channel selection can start.

5. SEEK Operation (Automatic Channel Selection)

When the up side is pressed, the unit will automatically tune to the next higher frequency and when the "SEEK" is pressed, it will automatically tune to the next lower frequency.

6. PRESET STATION SELECT button

Six (6) stations for AM, FM and FM2 respectively can be preset in the memory memory circuit on this unit.

HOW TO PRESET STATIONS

Six AM and twelve FM stations may be programmed into the memory of the radio. This is done simply by pressing the band select button and/or one of the six station select buttons you may preset any of these stations, including To program the stations, follow these steps:

- a. Press band selector for the band (AM, FM and FM2)
- b. Select the desired station to be stored by seek scan or manual tuning.
- c. Determine the preset station to be selected you wish to use to access that station.
- d. Press the station select button for more than two seconds. A select button may either not show in the display mode, or, which select button you have selected, pressed. The frequency display will flash after it has been stored in the memory. You should then release the button, and proceed to program the next desired station. A total of 18 stations can be programmed by selecting any AM and 12 FM stations per button.

c. When completed, any preset station may be recalled by selecting AM, FM1 or FM2 band and the appropriate station button.

7. BAND Selector

Pressing the BAND button change the AM, FM1 and FM2 bands. The mode selected is displayed on LCD.

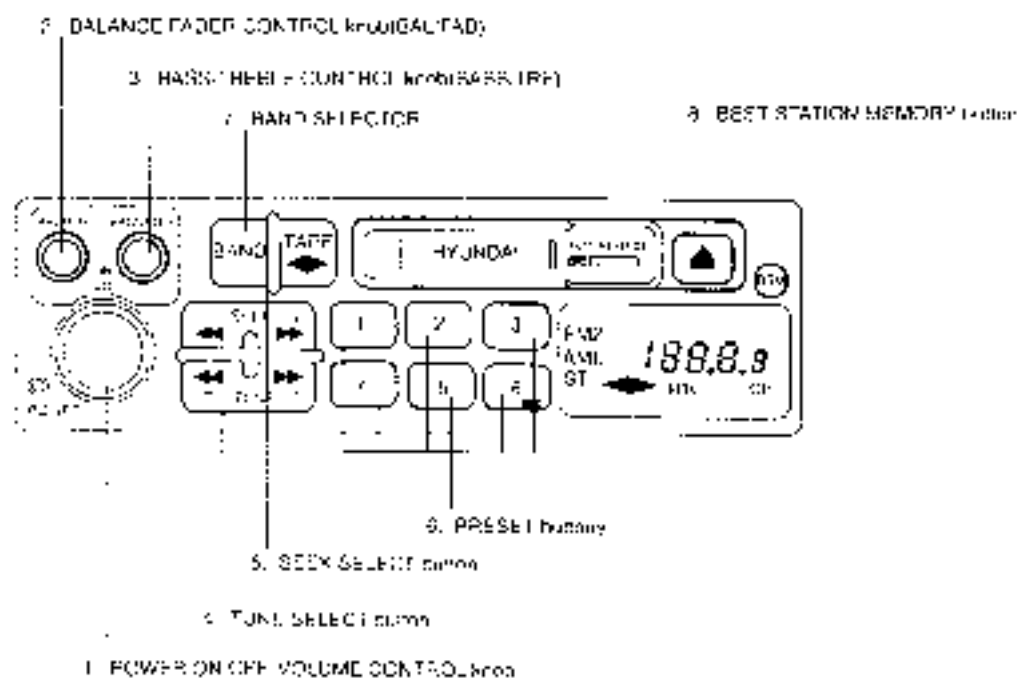
8. TAPE PROGRAM button

This allows you to play the reverse side of the tape by merely depressing the program button. An arrow will appear in the display to show tape direction.

9. FF/REW/EJECT buttons

When you press the button whose arrows in the same direction as the tape play arrow in the display the tape will advance at high speed. When you press the button whose arrows in the display the tape will rewind at high speed. In fast FF or REW action, press the opposite button or press the tape program button. If the tape program button is pressed, it will also reverse the tape play direction. To eject the tape press the FF and REW buttons simultaneously.

CASSETTE TAPE PLAYER OPERATION (H 820) (If installed)



1 POWER ON/OFF, VOLUME CONTROL knob

The radio can only be operated when the ignition key is in the "ACC" or "ON" position. Rotate the knob clockwise to switch the radio on and counter-clockwise to reduce the volume and to switch the radio off, all.

2 BAL (Balance Control) knob

Turn the control knob clockwise to emphasize right speaker sound. (Left speaker will not be able to hear.)

Turn the control knob counter-clockwise, left speaker sound will be emphasized. (Right speaker sound will be attenuated.)

FAD (Fader Control) knob

When the fader knob is popped up and down. Turn the control knob clockwise to emphasize front speaker sound. (Rear speaker sound will be attenuated.) When the fader knob is turned counter-clockwise, rear speaker sound will be emphasized. (Front speaker sound will be attenuated.)

3 BASS CONTROL knob

Press to pop the knob out and turn to the left or right for the desired bass tone.

TREBLE CONTROL knob

Further pull back position of treble control knob. Turn to the right for the desired treble tone.

4 TUNE (manual) Selection

Press the push-button, select the desired channel or frequency. With the button held down for 3 seconds, the "ST" signal (broadcast with radio wave) is created and channel selection completes.

5 SEEK Operation (Automatic Channel Selection)

When the function is pressed, the unit will automatically tune to the next higher frequency and when the function is pressed, it will automatically tune to the next lower frequency.

6 PRESET STATION SELECT button

See (5) for use of AM, FM and FAD. It specifies the preset in the radio's memory circuit on this unit.

HOW TO PRESET STATIONS

So AM and two FM stations may be programmed into the memory of the radio. This is done by simply pressing the tune select button and one of the preset station select buttons. You may recall any of these stations and make it a preset station by following these steps:

1. Press and hold down the tune select button, AM, FM and FAD.
2. Select the desired station to be stored by using station name of tuning.
3. Confirm the desired station selection by pushing the preset button to access the station.
4. Press the station select button more than two seconds. A series of tones will indicate that the station memory has been set. The frequency display will flash and it has been stored in the memory. Now play a different station by pushing the preset button to program the next desired station. A total of 10 stations can be programmed by selecting the AM and two FM radio name buttons.

6. When completed, any preset station
Tay D9 recalled by selecting AM, FM or
FM2 band and the appropriate station
button.

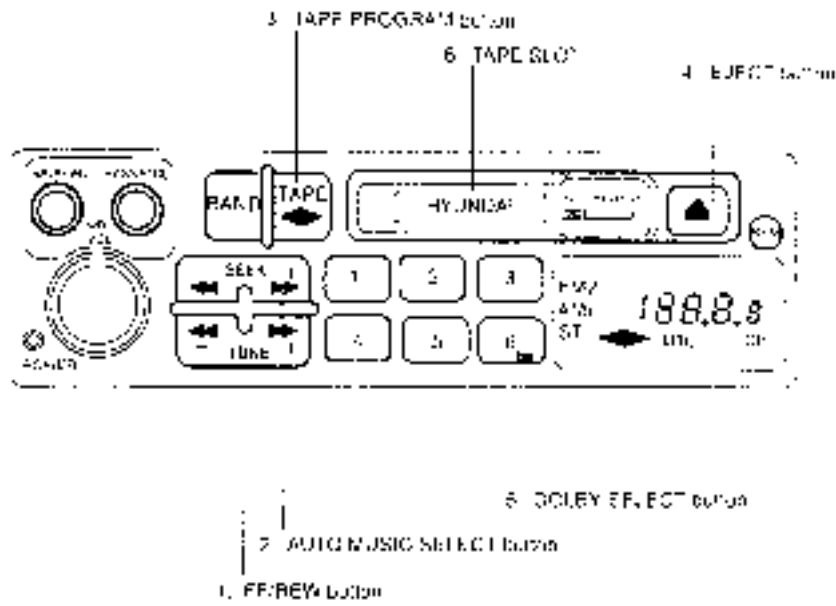
7. BAND Selector

Pressing the BAND button groups the
AM, FM1 and FM2 bands. The mode
selected is displayed on LCD.

**8. BEST STATION MEMORY button
(BSM)**

When the BSM button is pressed for two
seconds or longer, the preceding
memory is cleared, and six channels
with the highest RFI intensity are se-
lected and kept in memory at the preset
key in the sequence of frequency.

CASSETTE TAPE PLAYER OPERATION (H 820) (If installed)



1. FF/REW button

- o The FF (fast forward) (arrow pointing right) starts when the (right) side is pressed during the PLAY or FF/W.
- o The play starts when the (left) side is pressed again during the FF.
- o The REW (rewind) (arrow pointing left) starts when the (left) side is pressed during the PLAY or FF.
- o The play starts when the (right) side is pressed again during the REW.

2. AUTO MUSIC SELECT button

Press the button to find the starting point of each song in pre-recorded music tape. The blank space between songs (must have at least 4.4 sec. gap) can be recognized by the AUTO MUSIC SELECT button.

- o Pressing the (left) side will play the beginning of the next music segment.
- o Pressing the (right) side will start replay at the beginning of the music just listened to.

3. TAPE PROGRAM button

It's allow you to play the reverse side of the tape by simply depressing the program button.

An arrow will appear in the display to show tape direction.

4. EJECT button

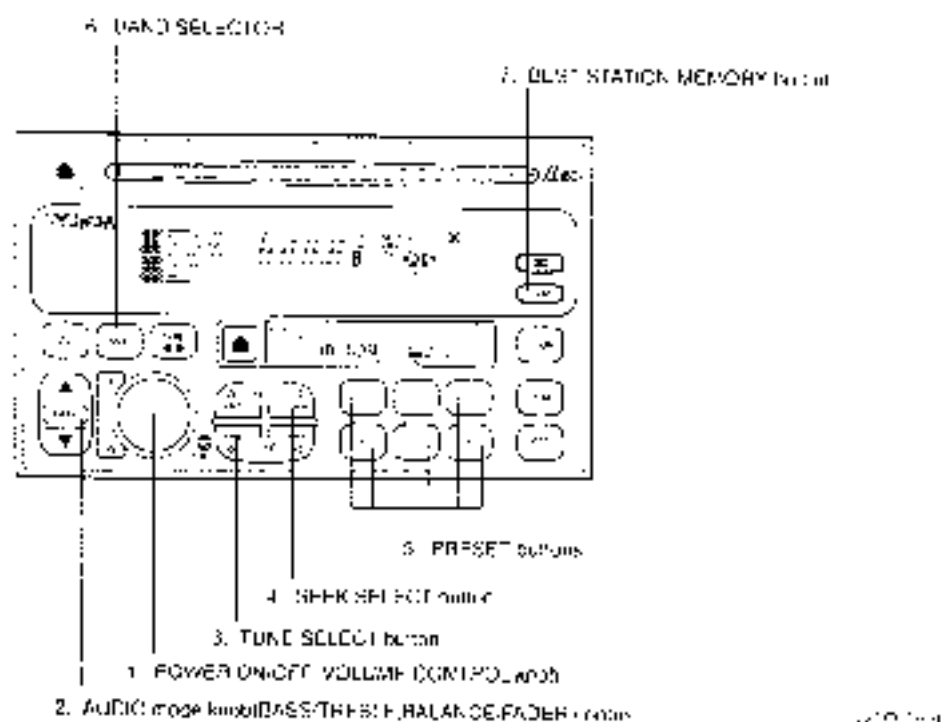
- o When the EJECT button is pressed with the cassette loaded, the cassette is ejected.
- o When the EJECT button is pressed during the FF/REW, the cassette is ejected.

5. DOLBY SELECT button

If you get background noise during PLAY, you can reduce it considerably by merely pressing DOLBY SELECT button.

If you want to release, press the button again.

STEREO RADIO OPERATION (H 850) (If installed)



1. POWER ON-OFF, VOLUME CONTROL knob

The radio may be operated when the power key is in the "ON" or "OFF" position. Press the button to switch the power on. The VFD (Vacuum Fluorescent Display) shows the radio frequency in the radio mode. The tune direction is displayed in the top corner. To switch the power on, press the button again.

VOLUME CONTROL

Rotate the knob clockwise to increase the volume and turn the knob counter clockwise to reduce the volume. The VFD shows the change in volume.

2. AUDIO MODE Knob

Each press the [A MODE] button changes the display as follows:

BASS H BAL FAD

1) Adjusting Bass

Press the [A MODE] button once time and the display shows:

To increase bass, press the [A] button and to decrease bass, press the [V] button.

MAX
BASS
MIN

2) Adjusting Treble

Press the [A MODE] button four times and the display shows:

MAX
TRE
MIN

Press the [A] button to increase the treble, while the [V] button decreases the treble.

3) Adjusting Balance

Press the [A MODE] button three times and the display shows:

MAX R
BAL
MIN L

Press the [A] button shift the balance to the right speaker, while the [V] button shifts to the left speaker.

4) Adjusting the Fader

But in any the system (between the front and rear speakers).

Press the [A MODE] button four times and the display shows:

MAX F
FAD
MIN R

Press the [A] button transfers the sound to the front speaker, while the [V] button transfers it to the rear speakers.

3. TUNE (manual) Selection

Press the [F] side key [] side to increase or decrease the frequency. With the button held down for 0.5 sec. (to receive the stop signal (broadcasting radio wave) signal) and change to color continues.

4. SEEK Operation (Automatic Channel Selection)

When the [F] side is pressed, the unit will automatically tune to the next higher frequency and when the [V] side is pressed, it will automatically tune to the next lower frequency.

5. **PRESET STATION SELECT button**
Six (6) stations for AM, FM and FM2 respectively can be preset in the electronic memory circuit on this unit.

HOW TO PRESET STATIONS

Six AM and two FM stations may be programmed into the memory of this radio. Then, by simply pressing the band select button and one of the six station select buttons, you may recall any of these stations instantly. To program the stations, follow these steps:

1. Flip the band selector to set the band for AM, FM and FM2.
2. Select the desired station to be stored by seek, scan or manual tuning.
3. Determine the preset station to not be used you wish to use to address that station.
4. Press the station select button for more than two seconds. A select button indicator will show in the display indicating which station button you have depressed. The frequency display will flash after it has been stored into the memory. You should then release the button, and proceed to program the next desired station. A total of 19 stations can be programmed by selecting one AM and two FM stations per button.
6. When completed, any preset station may be recalled by selecting AM, FM or FM2 band and the appropriate station button.

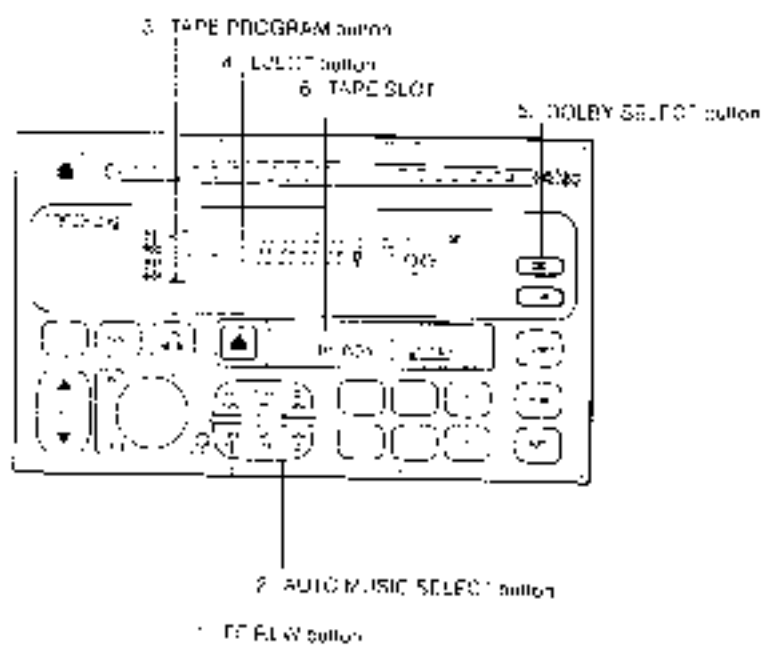
5 BAND Selector

Pressing the BAND button changes the AM, FM1 and FM2 bands. The mode selected is displayed on the LCD.

7. BEST STATION MEMORY button (BSM)

When the BSM button is pressed for two seconds or longer, the electronic memory is all cleared and 6 stations with the highest field intensity are selected and stored in memory. The stations selected are stored in the sequence of the preset key.

CASSETTE TAPE PLAYER OPERATION (H 850) (If installed)



1. FF-REW button

- a. The FF (fast forward tape winding) starts when the [FF] side is pressed during the PLAY or REW modes.
- b. Tape play starts when the [FF] side is pressed again during the FF.
- c. The REW (rewinding) starts when the [REW] side is pressed during the PLAY or FF modes.
- d. The play starts when the [FF] side is pressed again during the REW.

2. AUTO MUSIC SELECT button

- Press the button to find the starting point of each song in prerecorded music tape. The silent space between songs (must have at least 8-10 sec. gaps) can be accepted by the AUTO MUSIC SELECT button.
- a. Pressing the [L] side will play the beginning of the next music segment.
 - b. Pressing the [R] side will start replay at the beginning of the music just listened to.
- #### 3. TAPE PROGRAM button
- This allow you to play the recorded 400-ohm-tape by merely depressing the program button.
An arrow will appear in the display to show tape direction.

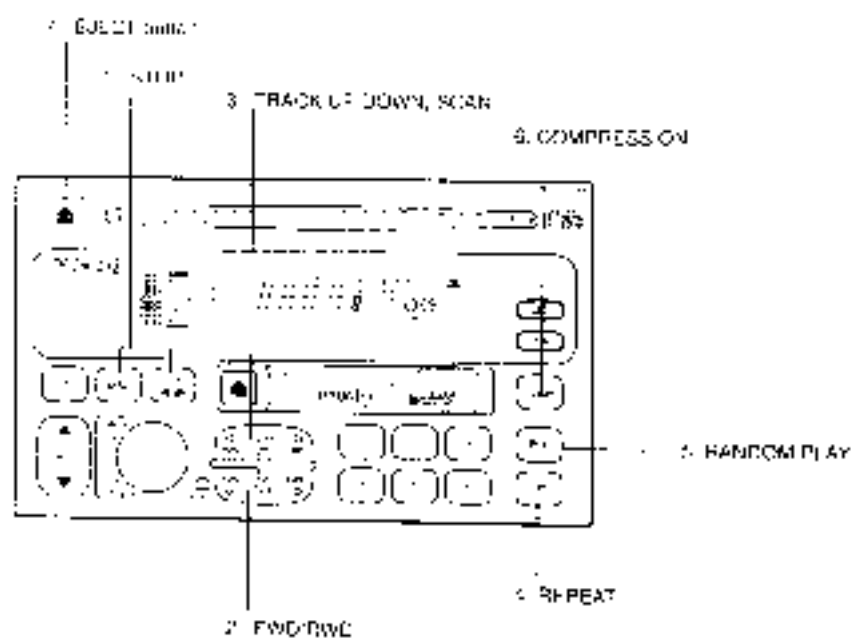
4. EJECT button

- a. When the EJECT button is pressed with the cassette loaded, the cassette is ejected.
- b. When the EJECT button is pressed during the FF/REW mode, the cassette is ejected.

5. DOLBY SELECT button

- If you get background noise during PLAY, you can reduce this noise level by merely pressing DOLBY SELECT button.
If you want to handle it again, push the button again.

COMPACT DISC PLAYER OPERATION (H 850) (If installed)



OPER 1009

1. **STOP**
2. Insert the CD to start CD playback (during the track approach of cassette tape playback).
3. Press the **STOP** button to stop CD playback and to change the source to Casset or Cassette tape.

2. **FWD/RWD**
1. When the disc is playing, if you hold down the **F** (side) button, the track number is increased and vice versa.

3. **TRACK UP/DOWN, SCAN**
1. The desired track on the disc currently being played can be selected using the track number.
2. Pressing the **T** (side) once increases the track number by one and pressing the **T** (side) decreases it.

SCAN

1. Press the **T** (side) once for more than one second to playback the first 5 seconds of each track.
2. Scan play will be repeated until you release **SCAN** operation.
3. To increase **SCAN** operation, press the **EFF** button again.

4. **REPEAT**
1. To repeat the music you are listening to, press the **RPT** button and to cancel music repeat, press again.

2. To protect or release FET operation of the all the tracks and other tracks, the CD will automatically jump from the first track.

5. **RANDOM PLAY**
1. A CD will be played in a random sequence.
2. Press the **RANDOM** button to start track in a random sequence when the disc is playing.
3. After all the tracks are played, the unit will play the track again in random sequence. The same track will not be played twice in one cycle of the disc.

6. **Compression**
- Press the **COMPRESS ON** button to start the Compression feature.
- Press the **COMPRESS ON** button again to deactivate.
- This feature allows the unit to narrow the dynamic range (difference between high and low volume) to decrease the track change in sound data and, when you change from tape to a track to give more

Care of DISC
Proper Handling



Handle your disc as shown. Do not dip the disc into the dust, so you will not have fingerprints on the surface. If the surface is scratched, it will cause the pickup to skip to other tracks. Do not allow tape to get on the disc. Do not write on the disc.

Damage Disc

Do not attempt to play damaged, warped or cracked disc. It could severely damage the playback mechanism.

Storage

When not in use, place your disc in the original case and store the case in a cool place away from the sun, heat, and dust.

Do not grip the disc by the edge with your hand while the disc is being pulled from the unit by Self-Loading mechanism.

Do not pull the unit from the car immediately after a drive session or the Eject Switch cannot disengage. If the unit is pulled out before an operation is completed, the disc will be unstable in the unit and may be damaged.

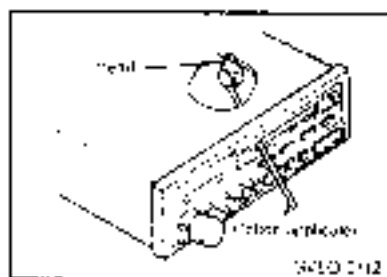
Do not attempt to insert a disc into the unit when the unit is not in the state of the power ON.



Keep Your Discs clean

Prevent dust, dirt or oil on the surface which cause the disc to be a signal track. Wipe the surface clean with a clean soft cloth if the surface is heavily soiled. Do not use a wet cloth. Use a solution of mild neutral detergent to wipe it clean. See drawing.

HEAD CLEANING



The playback head performs an important role in the reproduction of recordings. If the head surface becomes dirty, the quality of playback or skipping will occur, so the head should be cleaned periodically every one or two months.

If a special swab is used, use the swab one absolute as a tool for head cleaning, and use it to wipe the oil in the tape head.

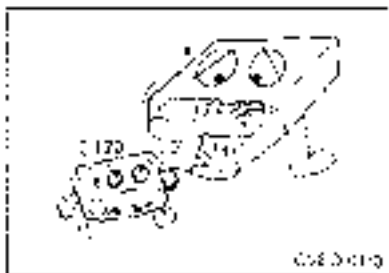
NOTE

- Do not use metal imaging on the head.
- Never use benzene or other solvents with cotton or gauze. Benzene may well scratch the head.
- When using a cleaning tape, this device is on one side for normal cleaning, but much use of the cleaning tape will increase head wear. Be sure to read the clear multiple instructions before use.

CAUTION

- Use ungrounded speakers only.
- Do not ground any of the speaker terminals.
- Be sure to insulate exposed wiring so as to protect it from short circuit if touched with some metal items.

CASSETTE CARE



1. When the unit is not in operation, remove the cassette from the player and keep it in its plastic case.
2. Keep the tape away from direct sunlight, oil, or dust; do not touch the tape surface with your fingers to avoid oil, dust, or other damage to the tape.
3. Do not use cassette tape lasting more than 600 (60 MIN); 100 or 180 tape is extremely thin and sometimes damages the drive mechanism; its use should be avoided if at all possible.
4. Always be sure that the tape is tightly wound on its reel before inserting in the player. Rotate a pencil in the drive socket to wind up any slack.

5. If the tape has been unrewound, the first required for tape transport is not required; it will cause the tape to switch automatically from one side to the other when the tape has reached the end. When this happens, make sure the tape is rewound properly.
6. Before inserting the tape, make sure that the tape is securely fastened to the case.
7. Keep the cassette away from magnets, loud speakers, motor, speaker, train, lamp, ETC. This is to avoid unwanted noise and loss of the tone quality of the tape.
8. Keep the cassette in a cool, dry place.

POWER ANTENNA (If installed)

The antenna will automatically be extended when the radio power switch is turned "ON". The antenna will automatically be retracted if it cannot extend within the radio power switch is turned "OFF" or the power key is set to the "LOCK" position.

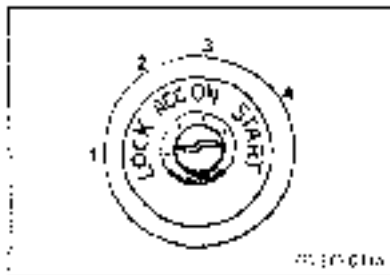
NOTE

1. Before turning on the radio, make sure that the car is parked. Antenna.
2. Before turning on the radio, make sure that the car is parked in a place with a low height clearance, or so that the antenna is retracted and stored.
3. If the antenna is stuck, be sure to check it under a power antenna or manual operation.

Starting and driving

Ignition switch
Starting the engine
Engine rpm adjustment knob *
Manual transmission
Transfer shift lever
Automatic transmission*
Free wheeling hubs
Correct four wheel drive operation
Parking brake
Inside rear-view mirror
Outside rear-view mirrors
Outside rear-view mirrors heater*

Ignition switch



1. Turn the key to the LOCK position and the steering wheel is locked. The key can be inserted and removed only at this position.
2. The engine stops, but the radio, fog lights, etc. can be operated.
3. The engine is running and all electrical systems can be operated. For these powered vehicles, the glow plug is in an operating position to pre-start the engine.
4. The starter motor operates. After the engine has started, release the key and it will automatically return to the ON position.

CAUTION

If the key is accidentally removed, the steering wheel will lock, making it impossible to control the vehicle.

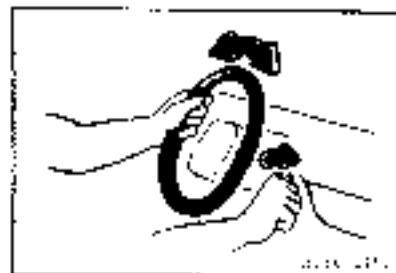
- (1) If the engine is stopped while driving, the brake servo mechanism will cease to function and braking efficiency will deteriorate.
- (2) Do not leave the key at the 'ON' position for a long time when the engine is not running; doing so will cause the battery to be discharged.
- (3) Do not turn the key to the 'START' position when the engine is running; doing so could damage the starter motor.
- (4) Remove the key when leaving the vehicle.

How to lock and unlock the steering wheel

TO LOCK

Turn the key to the LOCK position. Slowly turn the steering wheel until it is locked.

TO UNLOCK



Turn the key to the ACC position while turning the steering wheel lightly.

CAUTION

If the key is accidentally removed, the steering wheel will lock, making it impossible to control the vehicle.

Starting the engine

Tips for starting

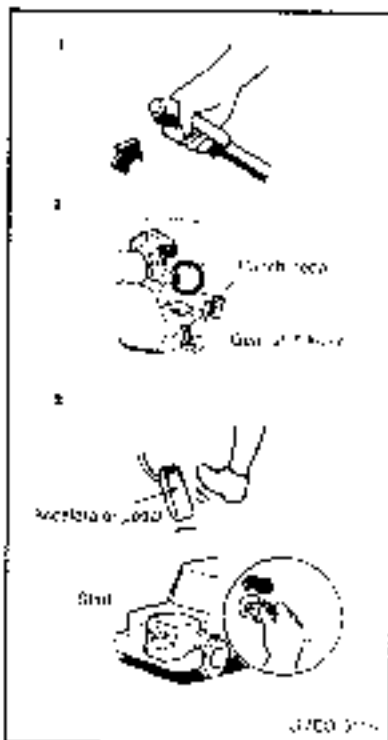
- (1) Do not operate the starter motor continuously for longer than ten seconds. Otherwise you could run down the battery. If the engine does not start, turn the ignition switch into LOCK, wait a few minutes, and then try again.
- (2) If the engine has not started because the battery is weak or dead, refer to the emergency starting procedure for instructions on starting the engine.
- (3) After starting the engine, do not keep the engine idling without ground. Only when the atmosphere is particularly dusty has, should the engine at high idling speed to ensure proper break-in of the oil.

CAUTION

- (1) For petrol-powered vehicles, do not keep the engine running for a long time in a closed or poorly ventilated space. Carbon Monoxide gas is odorless and extremely poisonous.
- (2) Do not run the engine at high rpm or drive the vehicle at high speed until the engine has had a chance to warm up.

- (3) Release the ignition key as soon as the engine starts to avoid damaging the starter motor.
- (4) For diesel-powered vehicles do not stop the engine immediately after operating the vehicle at high speeds. Allow the engine to idle for approximately 60 seconds or more to give the turbocharger a chance to cool down.

Starting the engine (diesel-powered vehicles)



VEHICLES EQUIPPED WITH DIESEL PREHEAT INDICATION LAMP

1. Apply the parking brake.
2. On vehicles with a manual transmission, move the gearshift lever to neutral and depress the clutch pedal all the way. On vehicles with an automatic transmission, move the selector lever to the "P" position.
3. Turn the ignition key to the "ON" position. The diesel preheat indicator lamp will just illuminate in amber, and then after a short time the lamp will turn off, indicating that preheating is completed.
4. Operate the accelerator pedal as detailed below in accordance with the atmospheric temperature and/or engine condition and then start the engine.
5. After the atmospheric temperature is moderate or the engine is warm, start the engine without depressing the accelerator pedal.
6. When the atmospheric temperature is low and the engine is cold, start the engine while depressing the accelerator pedal. If the atmospheric temperature is very low, holding the ignition switch to ON for one or two seconds before attempting to start the engine will make it easier to start.

Engine rpm adjustment knob *

When the outside air temperature is very low or when it is necessary to warm up the engine, rotate the control knob to that position which the engine runs smoothly and then, once the warm-up is complete, rotate the knob back to 0.

CAUTION

Never attempt to adjust the vehicle during driving by using the control knob.

Starting the engine

(gasoline-powered vehicles)

FUEL INJECTION TYPE

This vehicle is equipped with an electronically controlled fuel injection and fuel injection pump. It is automatically controlled. When starting the engine, do not depress the accelerator pedal.

1. Apply the parking brake.
2. On vehicles with a manual transmission, move the gearshift lever to neutral and depress the clutch pedal all the way. On vehicles with an automatic transmission, move the selector lever to the "P" position.
3. Start the engine without depressing the accelerator pedal.

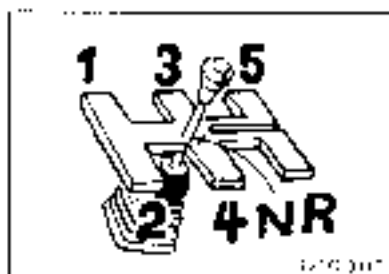
NOTE

If the engine will not become started during starting, hold down the starter button for 10 seconds while depressing the accelerator pedal fully, and then start the engine without depressing the accelerator pedal.

At extreme cold ambient temperature

If the engine will not start, depress the accelerator pedal about halfway during cranking the engine. Once the engine starts, release the accelerator pedal.

Manual transmission



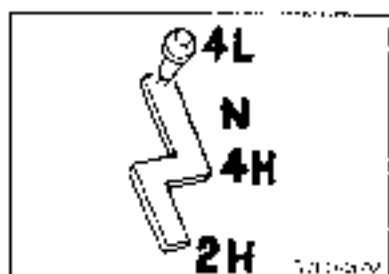
The shift pattern is shown in the legend of the lever knob. Be sure to always fully depress the clutch pedal before a lever shift to shift the gear.

To shift into reverse from 1st gear, move the gearshift knob to neutral and then shift into reverse.

CAUTION

Do not move the gearshift lever into reverse while the vehicle is moving forward; doing so will damage the transmission.

Transfer shift lever



The lever is used to select between rear-wheel drive and four-wheel drive, and low-speed, high speed, and neutral.

If the four-wheel drive lever is set to either the 4H or the 4L position, the ignition key will not turn ON position, the DVD indicator lamp will turn on.

Lever position

- (1) High-speed two-wheel drive
The two rear wheels will be driven; this position should be used for high-speed driving or for driving on normal roads.
- (2) High-speed four-wheel drive
All four wheels will be driven. This position should be used for driving in snow, sand, or rough roads, or at other times when increased drive power is needed.

and when driving at low or normal speed.

Neutral

This position should be used whenever mechanical work is to be performed. If available, the vehicle cannot be driven with the lever in this position.

NOTE

The N position is only on models with a manual transmission.

4L- Low-speed four-wheel drive

All four wheels will be driven. This position should be used for ascending steep, ascending steep grades, driving in mud, or at other times when increased drive power is needed. The drive power is the greatest when the lever is at this position.

CAUTION

- (1) Four-wheel drive should never be used on paved road surfaces. Don't drive your vehicle in the "4L" position on the public road; this would result in early wear of the tyres, clutch and other parts, increased fuel consumption and possible noise generation.
- (2) Use 1st gear in the "4L" position for very low speed off road driving.

Lever operation (vehicles equipped with manual free wheeling hubs)

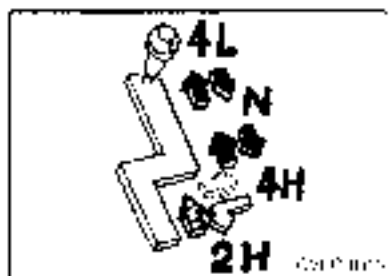


Fig. 2-11. 4L-4H

To shift between 2H and 4H, 4L and 4H, pull the left and right manual free wheeling hubs into the "LOCK" position. The lever can then be operated in this way while the vehicle is either stopped or moving, without depressing the clutch pedal. At the "LOCK" position, the lever will move automatically without depressing the spring actuator.

NOTE

Lever operation will always be a cut clutch pedal (right side) operation. Lever: ← 4L → R → 4H

The lever will be operated properly in most positions while the vehicle is stopped and the clutch pedal is depressed.

4L → 4H

The lever can be operated in this way while the vehicle is either stopped or moving, without depressing the clutch pedal.

CAUTION

1. If four wheel drive is to be used, be sure to set both the left and the right manual free wheeling hubs to the "LOCK" position.
2. When the transfer shift lever is to be shifted from 2H or 4H to 4L, and vice versa, keep the vehicle completely stopped and automatic transmission selector lever at the "P" or "N" position beforehand.
3. If shifting is difficult, set the automatic transmission selector lever to the "R" position for a moment and then to the "P" or "N" position. Try to shift the transfer shift lever to 2H, 4H or 4L again still keeping the vehicle completely stopped.

4. When switching from 4H to 4L or from 4L to 4H with the automatic transmission selector lever in neutral, perform the switchover quickly. If it is done too slowly, the transmission gears may grind.

Lever operation (vehicles equipped with automatic free wheeling hubs)



Fig. 2-12. 4L-4H

The lever can be operated in this way while the vehicle is stopped or moving, without depressing the clutch pedal.

At the "LOCK" position, the lever will move automatically without depressing the spring actuator.

NOTE

After the lever has been set to the "4H" position and the vehicle is driven at moderate speeds, the front wheel(s) will automatically lock and the vehicle will change to four-wheel drive.

← 4H → 4L → 4H

The vehicle can be operated between these positions while the vehicle is moving. The transfer lever is the master.

4H → 2H

This vehicle can be operated in this way while the vehicle is either stopped or moving with or without depression of the clutch pedal.

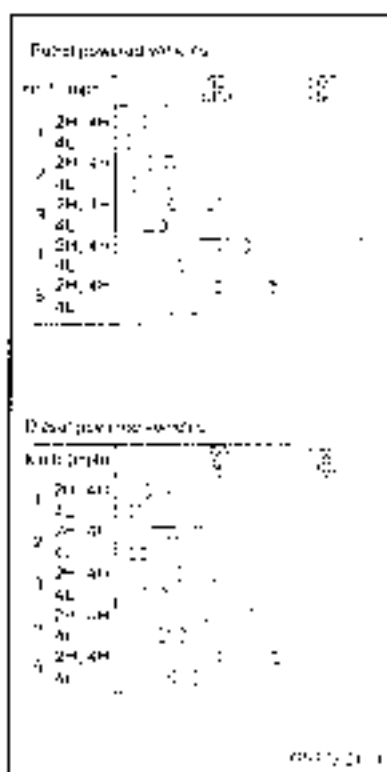
NOTE

After the lever has been set to the "2H" position and directly reverse the vehicle in a straight line for 1 to 2 m (3 to 6 ft). The front wheel(s) will automatically unlock.



CAUTION

1. When the transfer shift lever is to be shifted from 2H or 4H to 4L, and vice versa, keep the vehicle completely stopped and the automatic transmission selector lever at the "P" or "N" position beforehand.
2. If shifting is difficult, set the automatic transmission selector lever to the "R" position for a moment and then to the "P" or "N" position. Try to shift the transfer shift lever to 2H, 4H or 4L again still keeping the vehicle completely stopped.
3. When switching from 4H to 4L or from 4L to 4H with the automatic transmission selector lever in neutral, perform the switchover quickly. If it is done too slowly, the transmission gear may grind.

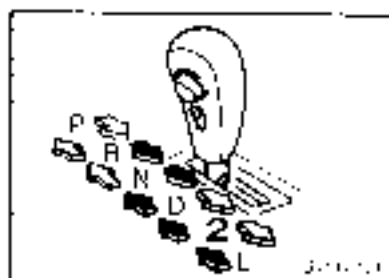
Changing gears



Always wait for the clutch to change the gear with the vehicle speed matched to the engine speed.
Proper shifting will improve fuel economy and prolong engine life.
Avoid shifting down at excessively high speeds, doing so could damage the engine.

Recommended gear range  Possible driving range 

Automatic transmission*



The transmission has four forward gears and one reverse speed.

The forward gears are selected automatically, depending on the position of the gear selector lever, the speed of the vehicle and the position of the accelerator pedal.

The selector lever has six positions, and is equipped with a lock button to prevent inadvertent selection of the wrong gear.

↑
Button must be pressed to move the selector lever.
Button need not be pressed to move the selector lever.

Selector positions

P-PARK

This position locks the transmission to prevent the vehicle from moving. The vehicle can be started in this position.

Never move the selector lever to P position when the vehicle is moving.

R-REVERSE

Move the selector lever down only after the vehicle has come to a complete stop.

N-NEUTRAL

In this position, the transmission is engaged, but it is the same as the neutral position of a manual transmission, and should be used when the vehicle is stationary for an extended length of time during driving, such as in a traffic jam.

CAUTION

Do not shift to the "N" position while traveling as the engine brake will be made inoperative.

D-DRIVE

This position is used for maximum highway driving for maximum fuel economy to maximum speed.

To prevent the automatic transmission of speeds of 150 km/h (90 mph) should not be entered while the overdrive control switch is pressed.

2-SECOND

This position is for extra speed when driving at moderately slow traffic, and for engine braking when descending a steep grade.

To prevent engine damage, always select the appropriate gear. A speed of 90 km/h (55 mph) should not be exceeded in 2nd gear. A change from 2nd to 1st should not be made while driving slower than 60 km/h (35 mph).

L-LOW

This position is for driving up any steep hill and for engine braking on the same when descending a steep grade.

To prevent engine damage, always select the appropriate gear. A speed of 50 km/h (30 mph) should not be exceeded in 1st gear. A change from 1st to 2nd should not be made while driving slower than 45 km/h (28 mph).

OVERDRIVE CONTROL SWITCH



Automatic shifting will shift from 1st gear through 4th gear if the selected lever is set to "D" when the overdrive control switch is not pressed. If the switch is pressed, automatic shifting will occur for gear through 3rd gear. In 2nd gear, the overdrive control switch during high speed driving will allow effective use of 4th gear and result in more economical driving. However, because automatic shifting to 4th gear during a long uphill or downhill grade would decrease the climbing ability, it requires driving effectively, pressing the overdrive control switch at these times.

Operation

Before selecting a gear with the engine running and the vehicle stationary, either engage the parking brake or depress the service brake.

Because the vehicle will begin to move as soon as the gear is engaged, especially when the engine rpm is high, the clutch should only be released when you are ready to drive away.

CAUTION

To prevent sudden acceleration never race the engine when shifting from the "P" or "N".

Passing acceleration

For quick acceleration when passing, depressing the accelerator pedal all the way to the floor will cause the transmission to automatically shift from 4th gear to 3rd gear, from 3rd gear to 2nd gear or from 2nd gear to 1st gear in accordance with the driving speed. At the same, manual having to raise the overdrive lever "D" to "2".

Waiting

For short waiting periods such as at traffic lights, the vehicle can be left in gear and held stationary with the service brake.

For longer waiting periods with the engine running, the selector lever should be set to the "N" position.

CAUTION

Never hold the vehicle stationary while in gear on a hill with the accelerator; always apply the parking brake and/or service brake.

Parking

On all vehicles, including the automatic, always fully engage the parking brake, and move the selector lever to "P".

If you are going to leave the vehicle unattended, be sure to always turn off the engine and remove the ignition key.

Free-wheeling hubs

If the vehicle is equipped with free-wheeling hubs, they are located on the front wheels. By setting the free-wheeling hubs to the "FREE" position when the selector lever is in the "D" position, the drive power at the front wheels is to the front wheels can be disconnected, thus resulting in more responsive acceleration and less fuel consumption.

By setting the free-wheeling hubs to the "LOCK" position when the selector lever is in either the "D" position or the "N" position, the drive power at the front wheels can be transmitted to the front wheels.

Manual free-wheeling hubs

The hubs are set in either the "FREE" position or the "LOCK" position by turning the handle.



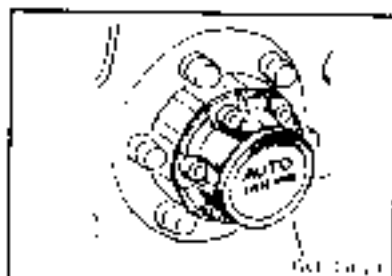
1. FREE
This position is for free-wheeling.
2. LOCK
This position is for full wheel drive.

CAUTION

If four-wheel drive is to be used, both the left and right free-wheeling hubs must be set to the "LOCK" position. Do not attempt to drive the vehicle with the transfer shift lever in either the "4H" or "4L" position if the free-wheeling hubs are in the "FREE" position.

If the setting of the free-wheeling hubs is to be changed after extended use of the brakes (such as for descending a long slope), allow them to cool first. The free-wheeling hubs can become extremely hot and could cause severe burns.

Automatic free-wheeling hubs



The hubs are automatically locked or unlocked according to the position of the transfer shift lever during turning.

TO LOCK THE HUBS:

Bring the vehicle to a complete stop. Move the transfer shift lever to the "2H" or "4H" and the hubs are automatically locked.

TO UNLOCK THE HUBS:

Drive the vehicle slowly forward or backward slowly, reverse the hubs are automatically unlocked.

The hubs of the vehicle may make a noise when they are unlocked. However, this noise is not a sign of a malfunction.

For rear-wheel drive or cars in good condition, the automatic free-wheeling hubs should be unlocked.

If changing from four-wheel drive to rear-wheel drive is to be done infrequently, it is possible to leave the automatic free-wheeling hubs locked. If this is done, the driver will feel a wheel chime be made while driving without stopping the vehicle. The automatic free-wheeling hubs will remain locked during rear-wheel drive if the transfer shift lever is moved to "2H" during driving.

CAUTION

- (1) Even if automatic free-wheeling hubs are left locked during rear-wheel drive, they will be unlocked if the vehicle is reversed during starting or on a slight grade, a U-turn, etc. If this happens, the transfer shift lever cannot be moved to the "4H" position during driving; the vehicle must first be completely stopped.
- (2) If, during four-wheel drive operation, the vehicle becomes stuck and a back-and-forth rocking motion is used to free it, the automatic free-wheeling hubs may become unlocked because of the backward movement. If the engine is subsequently revved up and the clutch let out suddenly, the automatic free-wheeling hubs may not lock, and a

noise of grinding gears will be heard; however, this is not a malfunction. In addition, if in this condition the accelerator pedal is released slightly and then depressed again, the automatic free-wheeling hubs will lock, but when they do, the vehicle may jerk forward suddenly. Depress the accelerator pedal gradually, and let the clutch out slowly and smoothly.

- (3) The automatic free-wheeling hubs may emit unusual noises when driving at "2H" in cold weather; if this happens, drive for a while in four-wheel drive to warm up the transfer and then shift to "2H".
- (4) When used while turning, it may not come free in some cases. If this happens, drive straight ahead and try again.
- (5) It may not come free in some cases when temperatures are low; therefore, in cold weather, free immediately after driving in 4 wheel drive. If this does not work, try again using one of the following methods:
 - o Drive for a while (approx. 10 minutes) in 4-wheel drive and try again.
 - o Drive straight forward slowly for 1 to 2 meters (3.3 to 6.6 ft.) and then back up, repeating this procedure several times.

- (8) It is very important that any repairs of the automatic free-wheeling hubs be done correctly. Have any such repairs done only at a GALLOPER dealer.

Correct four wheel drive operation

By using the four wheel drive, the full weight of the vehicle is equally connected with each wheel. This improves the traction when accelerating. When turning sharp corners or moving forward and backward rapidly, however, the drive line is stressed, which is felt as a braking effect. A four-wheel drive vehicle can accelerate more quickly and smoothly.

However, note that the braking distance is not shorter than that of a two-wheel drive vehicle. When using four-wheel drive on rough, mountainous, and dirt roads, it is important to operate the vehicle carefully.

NOTE

After driving on rough roads, clean each end of the vehicle and wash it thoroughly with water. Refer to the "Maintenance" section.

Driving on snowy or icy roads

For the transfer case, cover to 4H and 4L is assistance with the strict conditions, and then gradually depress the accelerator pedal for a smooth start.

NOTE

- (1) The use of snow tires on all types of cars is recommended.
- (2) Maintain a safe distance between vehicles to avoid sudden braking and use engine braking if necessary.
- (3) Avoid sudden starts or sudden acceleration and steering on a slippery surface.

Driving on sandy or muddy roads

Switch to 4H or 4L, and then gradually depress the accelerator pedal for a smooth start. Reduce the pressure on the accelerator if mud is present, as possible, and avoid kicking up dirt.

NOTE

- (1) Avoid sudden starts, acceleration and turning. Such operations could result in the vehicle becoming stuck.
- (2) If the vehicle is stuck in extremely muddy conditions, the driving class is recommended.
- (3) If the vehicle is stuck in thick, deep snow, use branches or other objects to pry the vehicle out and then drive to safety.

- (4) Brakes to the extent of road conditions is difficult to judge and the vehicle could be easily tipped down very easily. Operation should be at a low speed. If possible, get out of the vehicle and check the conditions ahead before proceeding.

CAUTION

Driving over roads in coastal areas or roads on which anti-skid preparations have been spread can cause rust on the vehicle; wash the vehicle thoroughly as soon as possible after such use.

Climbing sharp grades

Set the transfer shift lever to "4L" to maximize use of the engine torque.

- (1) Choose as smooth a slope as possible.
- (2) The climbing angle is a 35° grade on dry pavement.
- (3) Before attempting to drive up the slope, walk up it to confirm that the vehicle can handle the grade.

Descending sharp grades

Set the transfer shift lever to "4L" use the engine brake (downshifting) and descend slowly.

- (1) When descending a sharp grade, if the brakes are applied suddenly because of an obstacle or centered control of the vehicle could be lost. So, first descending the slope, walk down it and confirm the path.
- (2) Before descending a grade, it is necessary to choose the appropriate gear. Avoid changing gears or depressing the clutch while descending the grade.

Turning sharp corners

When turning a sharp corner, a four-wheel drive, the same thing that happens when doing so with the brake applied may occur. This is called light corner braking and results from each of the four tyres being at a different distance from the corner. The phenomenon is peculiar to four wheel drive vehicles at this time, and is particularly noticeable when changing from two-wheel drive.

Crossing a stream

Four wheel drive vehicles are not necessarily waterproof. If the electrical circuit becomes wet, further operation of the vehicle will be impossible; therefore, avoid crossing streams unless absolutely necessary. If crossing a stream is unavoidable, use the following procedure:

- (1) Cross at a place where the water is less than 50 cm (1' 6") deep.
- (2) Set the transfer shift lever to "4L".
- (3) Drive slowly at a speed of approximately 5 Km/h. (2 mph) to avoid splashing too much water.

CAUTION

Do not attempt to cross a stream at a place where the water is more than 50 cm (1.6ft.) deep.

Do not change gears while crossing the stream.

If an increasing of strains can adversely affect the life span of the vehicle, consult a GM / DPHR dealer and take the necessary measures to prepare, inspect, and repair the vehicle.

After crossing a stream:

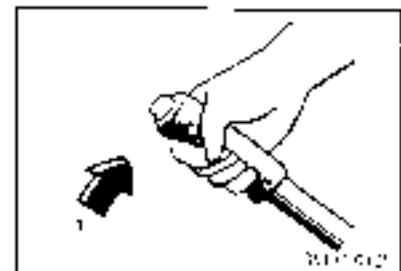
- a) Inspect the brakes to be sure they are functioning properly. Use brakes to slow and hold landings to properly dry them out by driving slowly while lightly depressing the brake pedal.
- a) Inspect each part of the vehicle carefully. Refer to the inspection and maintenance following rough road operation section.

Inspection and maintenance following rough road operation

After crossing the vehicle through rough terrain, you are sure to perform the following inspection and maintenance procedures:

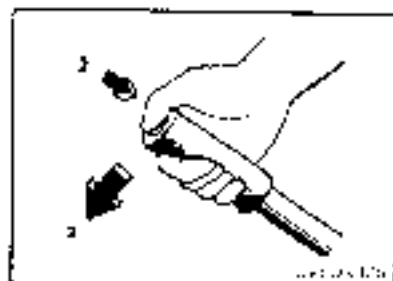
- 1) Check that the vehicle has not been damaged by rocks, gravel, etc.
- 2) Carefully wash the vehicle with water. Drive the vehicle slowly while lightly depressing the brake pedal in order to dry out the brakes. If the brakes still do not function properly, contact a GM / DPHR dealer as soon as possible to have the brakes checked.
- 3) If a stream has been crossed, check the engine, transmission, and differential. If the oil is milky or cloudy, water has become mixed in with it, and it must be replaced with new oil.

Parking brake



To park the vehicle, first bring it to a complete stop, fully engage the parking brake and then set the gearshift lever to Park or use for vehicles with manual transmission, place the transfer shift lever to any position except "N".

- 1) To properly pull the lever do without pushing the handle to the end of the lever.

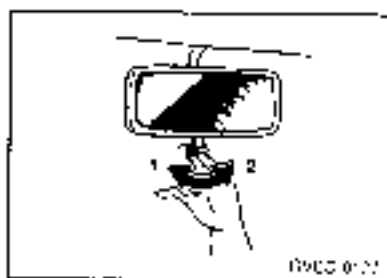


1. Turn the side and angle of the mirror slightly to push the bottom of the mirror housing downward.
2. Turn the side and angle of the mirror slightly to push the bottom of the mirror housing downward.

CAUTION

Before driving, be sure that the parking brake is fully released and brake warning lamp is off.

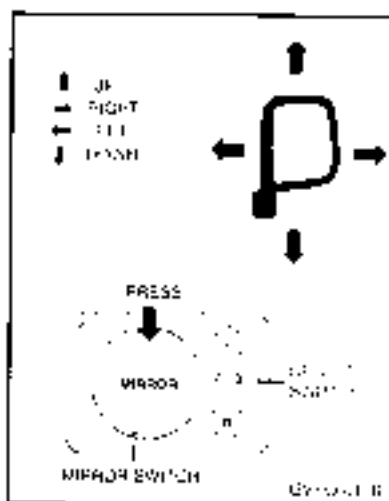
Inside rear-view mirror



The bottom of the bottom of the mirror can be used to adjust the mirror to reduce the glare from the headlights of vehicles behind you during night driving.

1. Neutral
2. Adjusting

Outside rear-view mirrors

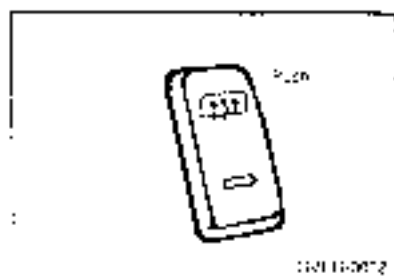


Place the select switch to the same side as the mirror whose adjustment is desired.

- L - Left outside mirror adjustment
- R - Right outside mirror adjustment

Press the mirror switch to adjust the mirror.

**Outside rear-view mirrors
heater * (If Installed)**



The outside rear-view mirror heater is activated in conjunction with rear window defrosting. So, to heat the outside rear-view mirror glass, push in the switch for rear window defroster. The rearview mirror glass will be heated for defrosting or deicing and will give you improved rear vision in all weather conditions. Push the switch again to turn the heater off. The outside rearview mirror heater automatically turns itself off after 10 seconds.

Vehicle care

Washing
Waxing
Polishing
Wheels
Chrome parts
Plastic and rubber part
Damaged paint
Tar
Window glass
Wiper blades
Engine compartment
Upholstery and interior
Tyre care

to help maintain the appearance of your vehicle. The best way to perform regular maintenance is by following the maintenance schedule in the maintenance manual. Be sure to maintain your vehicle according to all state and federal environmental pollution control regulations.

Carefully select the materials to be used for washing, such, to be sure that they do not contain corrosive or acidic. In doubt, contact a GM CORP Dealer for assistance in the selection of these materials.

Washing

Dirt and chemicals in the air and dust kicked up from the road surface can damage the paint and body of your vehicle. Dirt is also a good conductor.

Frequent washing and waxing is the best way to protect your vehicle from this damage. This will also be effective in protecting it from environmental elements such as rain, snow, salt, etc.

Do not wash the vehicle in direct sunlight. Park the vehicle in the shade and spray it with water to remove dust first, using an ample amount of clean water and a soft-bristled washing brush or sponge, wash the vehicle from top to bottom.

Use a mild vehicle washing soap if necessary. Rinse thoroughly and wipe dry with a soft towel. After washing the vehicle, carefully clean the joints and hinges of the doors, hood, etc., where oil is likely to remain.

NOTE

- 1) Try to refrain from using a car wash or automatic brushes, they scratch the paint and cause damage to the vehicle's finish. Spotting will be especially noticeable on darker colored vehicles.
- 2) Do not spray or splash water into the electrical components in the engine compartment, because it may cause adversely affect starting.

Waxing

Waxing the vehicle will help protect the car because of dust and dirt, ultraviolet rays, the pavement. Apply a wax until an even wash, dry the surface, and apply wax at intervals every three months.

Do not wax your vehicle in direct sunlight. You should wait until the surface has cooled.

Waxes containing chemicals or abrasives should not be used.

Such waxes remove rust and clean effectively from the paintwork but they are harmful to the finish of the painted surface. They may also scratch on the coating.

Further, they are dangerous to glassy surfaces such as grilles, garnish, molding, etc. Do not use petrol or paint thinners to remove road tar or other contaminants from the painted surface.

Polishing

The vehicle should be polished only if the paint has become dull and faded. Use only the flat finish polish and the procedure must be as described. Polishing these parts will maintain their original finish.

Wheels

The wheels and tires should be cleaned regularly, using the appropriate amount of soap and water.

Chromed aluminum wheels with a clear coating should be cleaned with a clear or non-abrasive polish. Do not use any other abrasive products. This is especially important for the areas where salt deposits are found, as they can be easily damaged by such chemicals.

Chrome parts

To avoid finger and spots and corrosion of chrome parts, wash with water, dry thoroughly and apply a special protective coating. It is best to clean these frequently in the wheel.

Plastic and rubber parts

Use a soft cloth and wash with water. If necessary, a cleaning agent specially designed for plastics can be used. If a cleaning agent with a high pH value is used, it can damage plastic parts. Wash properly with water and then use alcohol to remove the cleaning agent.

Damaged paint

Small cracks and scratches in the paint coat should be touched up as soon as possible with paint pen. It is easy to get to prevent scratches. Check had a new being the hold on the tires especially new for damage to the peripheral. Check regularly for stones etc. The paint color name for your vehicle can be found on the inside information label plate in the engine compartment.

Tar

If tar becomes adhered at the vehicle, use special tar remover to remove it as soon as possible. If the tar is not a stain, push the shroud out.

Window glass

The window glass can normally be cleaned with a dry cloth and water. Glass cleaner can be used to remove oil, grease and dirt marks, etc. After washing the glass, wash it with a clean, dry cloth. Do not use a soft cloth to wipe the window glass as used for user to wipe the surface. Look from the stained surfaces could adhere to the glass and reduce its transparency and visibility.

Wiper blades

Use a soft cloth and glass cleaner to remove grease, dirt marks, etc. from the wiper blades. Replace the wiper blades when they no longer wipe properly.

Engine compartment

Clean the engine compartment at the beginning and end of winter. Pay particular attention to fan belts, hoses, and peripheral parts where dust containing road chemicals and other harmful materials might collect. If salt and other chemicals are used on the road in your area, clean the engine compartment at least every three months.

Upholstery and interior

To maintain the value of your age, you should handle the upholstery carefully to take care of the interior.

Use a vacuum cleaner and brush to clean the seats. Stained, oily and sandy materials should be cleaned with an appropriate cleaner, and dirt fabrics can be cleaned with either upholstery cleaner or a dry cleaner. For all kinds of detergent, it is better to use. Clean the carpeting with a vacuum cleaner and remove any stains with carpet cleaner. Oil and grease can be removed by scrubbing with a clean colored cloth and benzene or spot remover.

Tyre care

For driving safety, and in order to obtain the maximum useful life of the tyres, the following points should be observed. For information concerning inspection, air pressure, and rotation of the tyres, refer to the part which deals with wheels in the section of this manual entitled "Do it yourself".

Tyre air pressure

The air pressure of the tyres must always be maintained in accordance with the manufacturer's, and should be measured when the tyres are cold.

If a tyre has been warmed up by driving, the inflation pressure is increased due to heat expansion. Therefore, never discharge air from a warm tyre, because the inflation pressure can fall below the specified value (cold tyre).

The inflation pressure of the tyres (including the spare tyre) must be checked at least every 14 days, in their cold state.

If the inflation pressure is too low, the tyre can become severely heated, causing damage to the inside. At high speeds, this can lead to separation of the tyre treads, and what is more, cause bursting of the tyre. Heat-related damage cannot be remedied by correcting the tyre inflation pressure later on. If any changes in driving conditions (speed and/or load weight) occur, the air pressure of the tyres must meet the specifications

which apply to the new driving conditions. If the vehicle is going to be driven under varying conditions (e.g. high speed driving, varying load weight, etc.), the air pressure must be adjusted in order to meet the highest specifications of the conditions under which the vehicle is driven (high speeds and maximum load weight).

Load weight and driving speed

Remove any luggage or other weight not necessary from the vehicle. The load weight prescribed in the text or shown in a table elsewhere should not be excessive.

Correctly adjusting the air pressure of the tyres before driving under maximum load weight conditions and before driving any other vehicle is especially important.

Tyre replacement

Tyres which do not meet the specifications must not be used. If a spare wheel of the type must be made as a set of the two front tyres, the two rear tyres must also be replaced.

CAUTION

Do not mix different type of tyres (i.e., bias-ply tyres and radial tyres) because it may affect maneuverability of your vehicle and result in loss of control.

Consult a GALLÓPER dealer for necessary information.

Kerb parking

If the tyres should be run on concrete parking kerbs, they must be air topped, and this damage could become a matter of extreme danger when the vehicle is subsequently driven at high speeds. If the vehicle is to be driven on kerbs only in any other such hazardous situations, be driven slowly and at a safe, proper angle to the kerb or barrier.

Do not use other than the original tyre as a spare tyre.

Tyres that drive on speeds are subjected to early wear. Periodically check tyres for damage, such as treadwear, foreign objects, cuts, cracks and swelling of the side walls. Apparent damage must be immediately examined by an expert. It is impossible to repair the tyre. If there is no certain about its condition, replace the tyre.

Tread depth

Check the tread depth periodically. The tread must be at least 1.6 mm (the greater the chance of aquaplaning after rain) to the minimum tread depth as specified by law.

Never use used tyres while safety is not shown. Tyres can be used even when they have not been used at all, or used only a little, even your own spare tyre must be used only in a emergency if they are 6 years old or older and the vehicle must be driven cautiously.

Tyre storage

Storage of the tyres should be in a dark, well ventilated place. Tyres not mounted on rims should be stored vertically. Be sure that the tyres are not in contact with fuel, oil, grease, etc.

MEMO

[The body of the document contains extremely faint, illegible text, possibly representing a memo or report. The text is too light to be accurately transcribed.]

During cold weather

- Engine oil
- Engine coolant
- Battery
- Washer fluid
- Wiper blades
- Ventilation slots
- Door locks
- Parking brake
- Washing the vehicle
- Weatherstripping
- Snow tyres
- Tyre chains
- Additional equipment

Engine oil

The viscosity of oil becomes very thick at low temperatures, thus making it difficult to start the engine.

Change to the thinnest oil designed for winter use before the start of cold weather, for the appropriate oil viscosity refer to the "Oil (page 2)" section.

Engine coolant

If the temperature in your area drops below freezing, there is the danger that the coolant in the engine or radiator could freeze and cause serious damage to the engine and/or radiator. Be sure to add a sufficient amount of antifreeze to the cooling system to prevent freezing.

The anti-freeze coolant mixture used at the factory is anti-freeze for use in the cooling system and provides protection against freezing temperatures as low as approximately -30°C (-22°F). The concentration should be checked before the start of cold weather and not freeze added to the system if necessary.

Battery

The capacity of the battery is reduced at low temperatures. This is an inevitable result of its chemical and physical properties. Thus, even a very cold battery, particularly one that is not fully charged anyway, will only deliver a fraction of the normal current which is nor-

mally available.

This feature reminds that you have the battery checked by a dealer or before the start of cold weather and, if necessary, have it replaced. This not only assures reliable operation of a battery which is kept fully charged, but also has a longer life.

Washer fluid

To ensure proper operation of the windshield wiper with low temperatures, an insect should be added to the washer fluid at a rate of one fluid ounce per one quart water.

Wiper blades

Before opening the hood, check the wiper blades to confirm that they are not frozen to the windshield or rear window. Try to separate the front wiper wiper, when they are frozen to the windshield, by gently tapping wiper motor. Before from operating the wiper until the ice has melted and the wipers are free.

Ventilation slots

The ventilation slots on front of the windshield should be checked about after a heavy snowfall so that the operation of the heating and ventilation system will not be impaired.

Door locks

To prevent the door locks from freezing, use an lock oil (check whether the manual call for oil) or lock washer fluid or lock oil can be used to prevent the contraction of wax.

Parking brake

If the ambient air temperature is below freezing, park the vehicle with the gear in reverse (R) to ease the four wheels with rubber brake shoes on R2. The parking brake lever in the position where there is just one ring should engage the parking brake at the parking brake is engaged and the car is stationary on the brake levers, the levers might be gone frozen to the brake drums, making it impossible to release the parking brake. When parking in a steep slope, on the front wheels in towards the curb and chock the wheels.

Washing the vehicle

If you plan to wash your car, avoid doing so too early in winter months, but have a gentle wash after on the vehicle body. You should therefore wash the car as often as possible in a combination with hot water wash to prevent ice formation on paint and the undercoat. In addition, be kind to a CAR-LOPPER. Use a sponge and after the cold weather season.

Weatherstripping

To prevent freezing of the weatherstripping on the doors, windows, etc., these should be treated with grease/grease.

Snow tyres

The use of snow tyres is recommended for driving in snow and ice. To preserve the noisily running snow tyres of the same size and tread pattern on all four wheels.

Snow tyres worn more than 20% should no longer suitable for use as snow tyres. Snow tyres which exceed tread depth limits should not be used.

NOTE

The local laws and regulations concerning snow tyres also need to be read and tyre inflation very. Find the local laws and regulations in your area.

Tyre chains

tyre chains are not used on any that they are mounted on the rear wheels.

Use of a tyre chain that is not designed for use with the correct amount of weight as per the manufacturer's typical instructions may damage the vehicle body.

When the tyre is over the patches of ice and snow, the tyre should be checked and if necessary, the chains should be changed to the tyre.

NOTE

The laws and regulations concerning tyre chains vary. Find out and follow the law and regulations in your area.

Additional equipment

It is required to carry a shovel and shovelling tool, a shovel in the vehicle for the purpose that you can clear away snow if you get stuck. A metal shovel for snowing snow off the vehicle and a plastic scraper for the same purpose may be used with a shovel.

Do it yourself

Inspection items

Engine oil

Automatic transmission fluid *

Engine coolant

Battery

Brake fluid

Power steering fluid

Hydraulic clutch

Washer fluid

Wheel condition

Fuel, engine coolant, oil, and exhaust gas leakage

Exterior and interior lamp operation

Headlight washer fluid*

Tyre inflation pressure

Meter, gauge, and indication/warning lamp operation

Steering wheel free play

Clutch pedal free play

Brake Pedal free play

Parking brake lever stroke

Wheel rotation

Hinges and latches lubrication



7-10 129

Take care of your vehicle at regular intervals to preserve the value and appearance as long as possible. Some maintenance items can be carried out by the owner (if it you wish), while others should be done only by a GALI OPER dealer (based on an emergency). The section discusses only those items which can be carried out by the owner in the event a problem occurs. If a problem is encountered, have it done by a GALI OPER dealer. This section does not contain information on inspection maintenance procedures that you can do yourself. Consult the following instructions and captions for each of the various procedures.

CAUTION

1. When checking or servicing the inside of the engine compartment, be sure the engine is stopped and has had a chance to cool down.
2. If it is necessary to do work in the engine compartment with the engine running, be especially careful that your clothing, hair, etc., does not become caught by the fan, V belts, or other moving parts.
3. Improper handling of components and materials used in the vehicle can endanger your personal safety. Consult a GALI OPER dealer for necessary information.

Inspection Items

- (1) Engine oil
- (2) Automatic transmission fluid
- (3) Engine belts
- (4) Battery
- (5) Brake fluid
- (6) Power steering fluid
- (7) Coolant level (by brake fluid level)
- (8) Washer fluid
- (9) Air filter (clean or replace as needed)
- (10) Type of air filter used (including spark plugs)
- (11) Fuel engine (check for fuel system gas leakage)

- (12) Detail and interior (engine compartment)
- (13) Motor, cables, and attachment (check by a GALI OPER)
- (14) Steering wheel free play
- (15) Clutch pedal free play
- (16) Brake pedal free play
- (17) Parking brake lever stroke

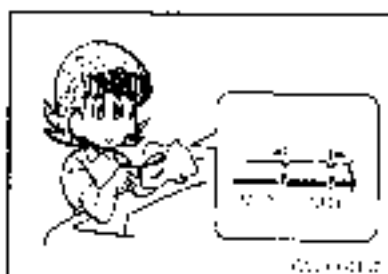
Other

1. Check for leaks
 - (a) Engine to AC (from 200 to 250, at 10 miles per hour or more)
 - (b) High speed air filter (check)

NOTE

You may require special inspection or repair sheets such as the engine oil, coolant, brake fluid and washer fluid check sheets.

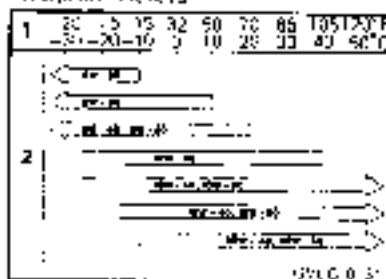
Engine oil



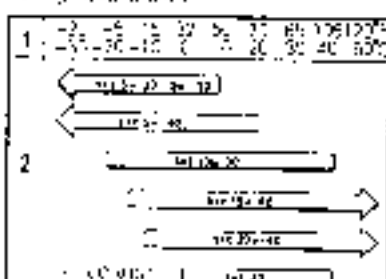
At engine start, check an amount of oil. An amount that is in the back half of the dipstick is best. Check before starting a long trip.

This chart shows an idea of how the engine wears out. Start with the engine on a level surface, start the engine, and then wait a few minutes to allow the engine oil to circulate throughout. Remove the dipstick and wipe it with a clean rag. Reinsert the dipstick as far as it goes. Remove the dipstick and wipe the oil on a white cloth or what is on the dipstick. Hold it in the light. The oil level should be the same as the amount of the dipstick. The oil level should never get too low. To raise the level, add oil to the correct amount. Be sure to use the specified engine oil and do not mix two oil types or oil grades. Mixing different

Gas-powered vehicles



Diesel-powered vehicles



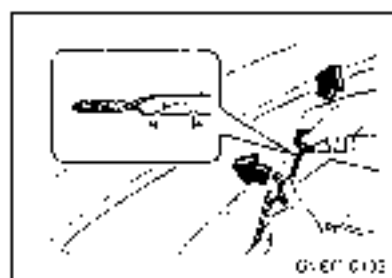
Make sure the dipstick is clean. After adding oil, use the cap securely.

Selection of engine oil

1. Use engine oil conforming to the following API classification:
 - Gasoline-powered vehicle:
 - FOR SERVICE: API oil grade
 - Diesel-powered vehicle:
 - FOR SERVICE: CD or higher
 - 2. Select engine oil to the proper SAE viscosity number according to the operating temperature.

- 1 - Ambient temperature
- 2 - SAE viscosity

Automatic transmission fluid *



The proper amount of automatic transmission fluid is essential to the life and operation of the automatic transmission. If the insufficient amount is used, it could cause transmission failure. The transmission fluid level must be checked frequently and the following procedure to check the fluid level:

1. Check the fluid level after the vehicle has been driven enough to warm up the transmission fluid.
2. Park the vehicle on a flat level surface and apply the parking brake.
3. With the engine idling and the brake pedal fully depressed, move the transmission selector lever through all the positions from "P" to "N", stopping momentarily at each position.
4. Move the selector lever to "N".

5. Dip the transmission fluid into a clean test tube about

6. The fluid level should appear to be between the two upper marks. The grade "DIAMOND ATF 57-97" automatic transmission fluid should be used for all models.

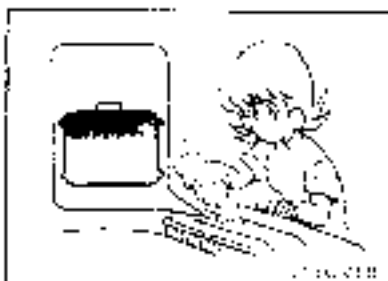
CAUTION

Do not spill the fluid onto the vehicle, particularly when it is in motion, or when driving. This will help avoid fire and slip.

Engine coolant



A low level of coolant reservoir indicates a low level of engine coolant. The coolant level in the reservoir should be kept between the "LOW" and "FULL" marks when the engine is warm and idling. The cooling system is a closed system, and normally the loss of coolant should be very slight. Additional to drop on the ground level only, it is not to be kept. If the coolant level is very low, contact a GALLOPEX dealer or service provider.



The level in the reserve tank (Ad or radiator cap) while the engine is hot must be set on the reserve line (upper level) per your system. As the temperature is completely empty, the level in the reserve tank must be set on the level below the "LOW" line.



CAUTION

Do not open the reserve tank (Ad or radiator cap) while the engine is hot. The coolant system is under pressure and any hot coolant escaping could cause severe burns.

Antifreeze

The engine coolant contains an ethylene glycol anti-freeze agent. The mixture must be checked and refilled as the coolant level gradually decreases. Changing of the engine coolant is necessary to prevent corrosion of engine parts.

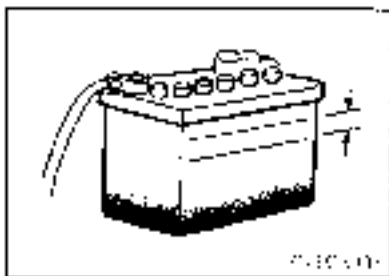
Because of the toxicity of the anti-corrosion agent, the coolant must not be replaced with plain water even in summer. The engine is affected and an antifreeze dilution may affect the engine oil dilution technique.

Mineral water 50% + anti-freeze 50%	20°C - 30°C	45°C
Antifreeze concentration 50%	30%	50%

CAUTION

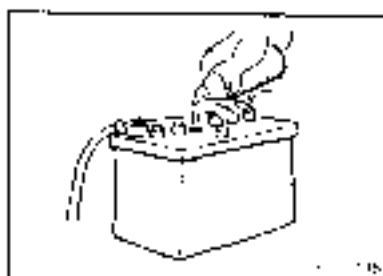
For effective anticorrosion and antifreeze performance, keep the antifreeze concentration within the range of 30 to 50%. Concentrations exceeding 50% will result in a reduction of cooling performance, thus adversely affecting the engine.

Battery



The location of the battery is very important for easy starting of the engine and correct functioning of the vehicle electrical system. Regular inspection and care are especially important in cold weather.

Checking battery electrolyte level



The electrolyte level must be between the UPPER and LOWER marks shown on the outside of the battery.

Replenish with distilled water as necessary. Do not add any battery electrolyte into your car. Components: remove the cap from each compartment and fill to the UPPER mark.

Do not overfill, especially beyond the UPPER mark, because of spillage during charging, which causes damage.

Check the electrolyte level at intervals depending on the operating conditions.

If the battery is not used, it will discharge by itself with time. Check it once every four weeks and charge with low current, as necessary.

Disconnection and connection

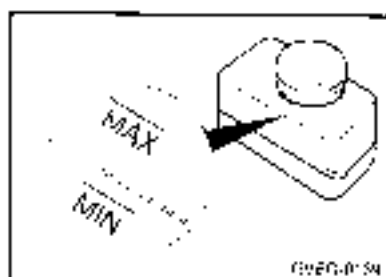
Never disconnect the battery while the engine is still running and do not plug or unplug a cable while the engine is running. First disconnect the negative cable from the battery, then disconnect the positive terminal. After disconnecting the battery, disconnect the main battery terminal and then the negative terminal.

CAUTION

1. Keep the terminals clean. After the battery is connected, apply terminal protection grease. To clean the terminals, use lukewarm water.
2. Never short circuit the battery; doing so could cause it to overheat and be damaged.
3. Do not smoke or bring an open flame near the battery; doing so could ignite the explosive gas generated by the battery.
4. The battery electrolyte is extremely caustic. Do not allow it to come in contact with your eyes, skin, clothing, or the painted surfaces of the vehicle. Spilled electrolyte should be flushed immediately with ample amounts of water. Irritation to eyes or skin from contact with electrolyte requires immediate medical attention.
5. If the battery is to be quick charged, first disconnect the battery cables.

6. In order to prevent a short circuit, be sure to disconnect the negative (-) terminal before doing anything else.
7. Keep it out of the reach of children.

Brake fluid



Check the brake fluid level in the reservoir. The brake fluid level must be between the MAX and MIN marks on the reservoir. The fluid expands slightly with wear of the brake pads, but this does not indicate any abnormality.

If the brake fluid level falls markedly in a short length of time, it indicates leaks from the brake equipment. If this occurs, have the vehicle checked at a GAI LOPER center. Use SAE J1703 (DOT3) or equivalent type brake fluid. The brake fluid is hygroscopic. Any moisture in the brake fluid will adversely affect the brake equipment, reducing the brake performance. In addition, the brake fluid reservoir is equipped with a seal-off cap to prevent the entrance of air, and the cap should not be removed.

On a vehicle with a brake fluid warning lamp, brake fluid level is monitored by a float. When the brake fluid level falls below the "MIN" mark, the brake fluid warning lamp lights up.

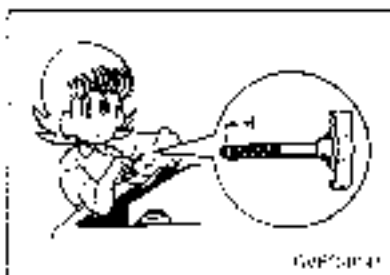
CAUTION

- (1) Use only the specified brake fluid. Also, the additives in different brands may result in a chemical reaction when mixed together, so avoid mixing different brands if possible.
- (2) Brake fluid is toxic and corrosive.

Power steering fluid

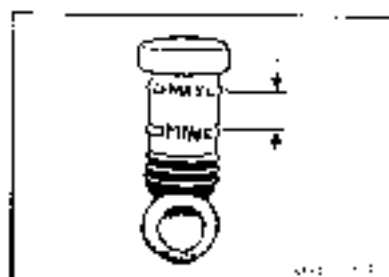


Check the fluid level in the reservoir when the engine is running. Check the reservoir and the level gauge is always on the "Full" side of the cap.



The level should be between the "MAX" and "MIN" lines on the level gauge. Use DEXRON[®] or equivalent.

Hydraulic clutch



The clutch fluid reservoir is located in the rear of the engine compartment. The fluid level should always be between the "MAX" and "MIN" marks on the reservoir. Use only SAE 1-1/2W DOT3 brake fluid.

Washer fluid

Windscreen washer fluid



Check the washer fluid level in the reservoir before the engine starts. Refill if the level is low. Use only the recommended washer fluid.

Rear window washer fluid



Remove the lid from the top of the rear window washer.

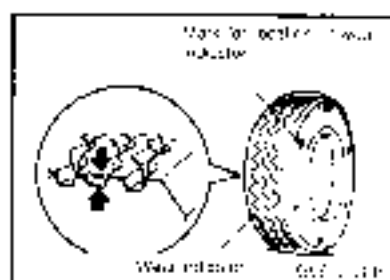
Check the washer fluid level in the container. If the level is low, replenish the container with washer fluid.

Wheel condition



Check the tires for cuts, bulges and other damage. Replace the tires if there are deep cuts or cracks. Also check each tire for pieces of metal or carbon.

The use of worn tires can be very dangerous because of the greater chance of skidding or hydroplaning. The tread depth of the tires must exceed 3.2 mm (0.06 in) in order for the tires to meet the minimum requirement for use.



If there are hard-line wear indicators on the tires, they will appear in six places on the surface of the tire tread, thereby indicating that the tire no longer meets the minimum requirement for use. When these wear indicators appear, the tires must be replaced with new ones. Confirm that the wheel nuts are tightened sufficiently. Refer to the section of this manual entitled "Wheels" for information concerning replacement of the tires.

Fuel, engine coolant, oil, and exhaust gas leakage

Look under the body of your vehicle to check for fuel, engine coolant, oil, and exhaust gas leaks. If leaks are evident, take your vehicle to a GALLOPER dealer for inspection.

Exterior and interior lamp operation

Operate the light switch and combination switch to confirm that all lamps are functioning properly.

If the lamps do not go on, the probable cause is a blown fuse or defective lamp bulb. Check the fuses first. If there is no blown fuse, check the lamp bulbs.

For information regarding the inspection and replacement of the fuses, refer to the section entitled "Emergency measures".

If the fuses and bulbs are all OK, take the vehicle to a GALLOPER dealer for inspection.

Headlight washer fluid * (If installed)



Check the headlight washer fluid level in the container inside the engine compartment. If the level is low, replenish the container with washer fluid. Check the condition of the spray nozzles periodically.

Tyre inflation pressure

Tyre size	Standard tyre pressure
P225/75R15 Front Rear	1.8(26) 1.8(26)
P225/75R15 Front Rear	1.8(26) 2.0(29)
P225/70R15 Front Rear	1.8(26) 2.0(29)
LT225/75R15 Front Rear	2.7(38) 2.7(38)
P275/60R15 Front Rear	1.8(26) 1.8(26)

Check the tyre inflation pressure of all the tyres while they are cold. Insufficient or excessive, adjust to the specified value. After the tyre inflation pressure has been adjusted, check the tyres for damage and air leaks.

Be sure to put rubber caps on the valves.

Meter, gauge, and indication/ warning lamp operation

Run the engine to check the operation of all meters, gauges, and indication/ warning lamps.
If there is anything wrong, take the vehicle to a GALLOPER dealer for inspection.

Steering wheel free play



Check the free play of the steering wheel by turning it slightly in each direction (from the straight ahead position) until resistance is felt.

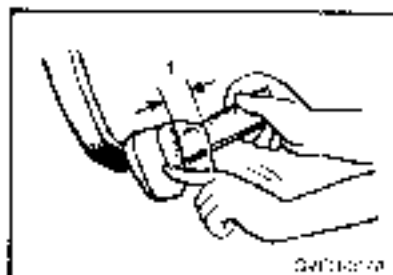
On vehicles equipped with a power steering, check the steering wheel free play with the engine idling.

The free play at the circumference should not exceed the standard value.

- 1 - Free play
50 mm (2 in.)

If the steering wheel free play exceeds the standard value, have the steering wheel adjusted at a GALLOPER dealer.

Clutch pedal free play

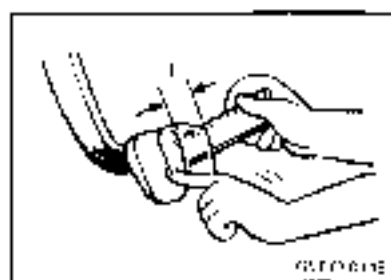


Press down on the clutch pedal with your fingers until initial resistance is felt. This distance should be within the standard range.

- 1 - Free play
6 to 13 mm (0.1 to 0.5 in.)

If the clutch pedal free play is not within the standard range, have the clutch pedal adjusted at a GALLOPER dealer.

Brake pedal free play

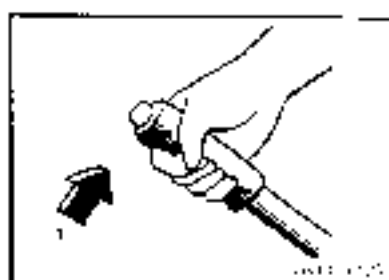


Stop the engine, depress the brake pedal several times, and then press down on the pedal with your fingers until initial resistance is felt. This distance should be within the specified range.

- 1. Free play
2 to 8mm (3/16 to 5/16")

If the brake pedal free play is not within the specified range, have the brake pedal adjusted at a GALLOPER dealer.

Parking brake lever stroke

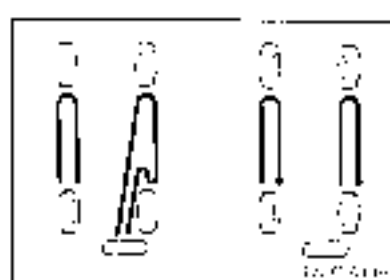


Pull the parking brake lever all the way up to check the number of clicks that the ratchet makes. One click represents a lever movement of one notch. The lever should move the specified number of notches for normal brake adjustment.

Parking brake lever stroke 4 to 6 notches

If the parking brake lever stroke is not within the standard value range, have the brake lever adjusted at a GALLOPER dealer.

Wheel rotation



Rotate the wheel until the tire tread is on the front of the brake. To make sure that the tires wear evenly as possible and for longer tire life, rotate the wheels in the sequence that is listed.

Bring the vehicle to a GALLOPER dealer to have the balance of the wheels properly adjusted.

CAUTION

If the spare wheel is of a different type from the other four wheels, the four wheel rotation method (excluding the spare wheel) should be used.

Hinges and latches lubrication

Check all latches and hinges and lubricate if necessary by first cleaning and then apply oil of appropriate grade.

MEMO

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Emergency measures

Tools and jack

Jack

Jacking up the vehicle

Spare wheel

If tyre is punctured

Towing

Engine overheating

Bleeding the fuel system

(diesel-powered vehicles only)

Removal of water from the fuel filter

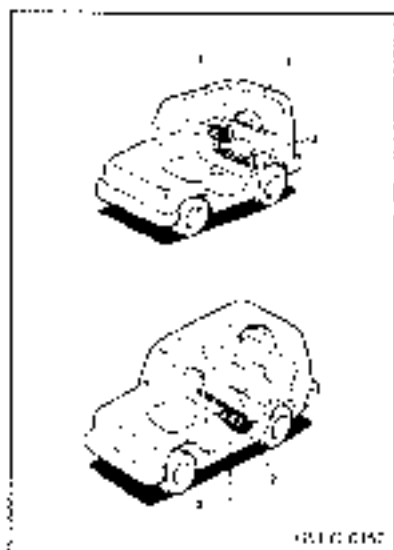
(diesel-powered vehicles only)

Emergency starting

Brake pad wear alarm

Fuses

Tools and jack

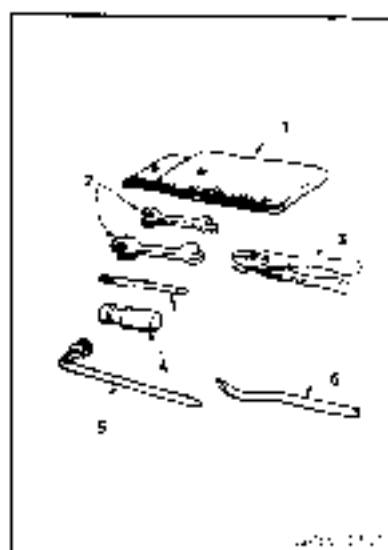


The storage location of the tools and jack should be remembered in case of a sudden need.

Location

- 1 - Tools
- 2 - Jack
- 3 - Jack handle

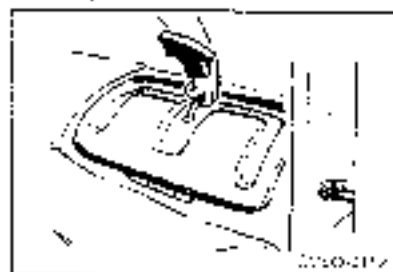
Tools



- 1 - Tool bag
- 2 - Wrench
- 3 - Pliers
- 4 - Screwdriver
- 5 - Wheel nut wrench
- 6 - Bar

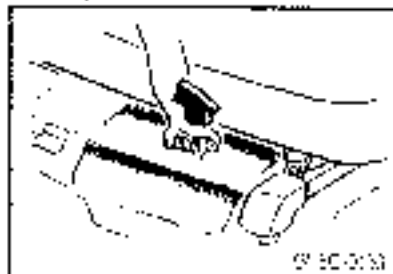
Jack

To remove (Short wheel based models)

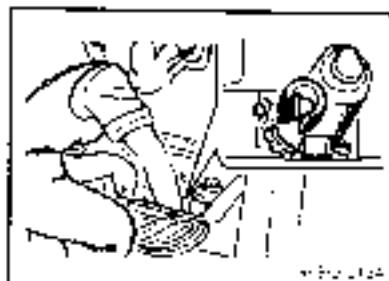


Open the lid

To remove (Long wheel based models)



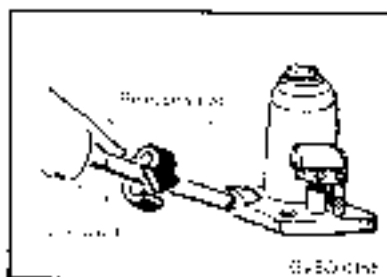
Open the lid



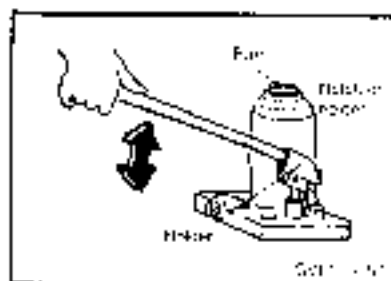
Remember to wear your seat belt and buckle for the ride.

Jacking up the vehicle

The method for jacking up the vehicle, should be being applied in order to change a tyre in the event of a puncture and in order to install tyre chains. After engaging the engine and applying the parking brake or a handbrake, ensure also that the vehicle is held by the wheels.

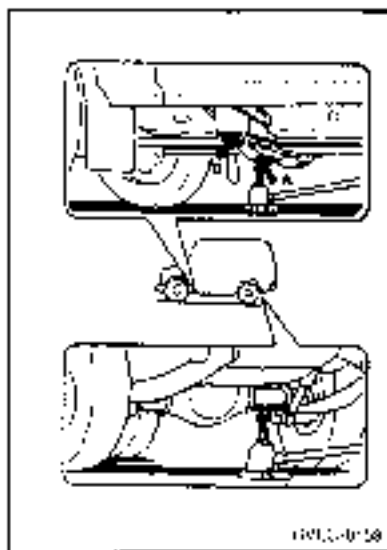


Insert the jack into the holder.
Use the jack handle, turn the release valve clockwise until it is fully closed.



Push the jack handle into the holder, and align the groove of the jack handle with the notch of the holder.

Move the jack handle up and down to raise the ram until just before the jack contacts the jacking point of the vehicle.

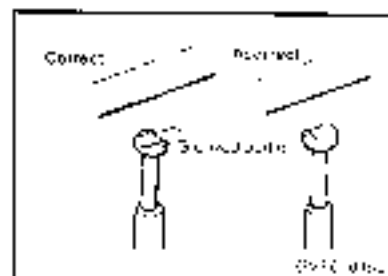


Position the jack with the jack handle. Release it only at the specified points indicated in the illustration. Use of the jack at other points could damage the vehicle body.

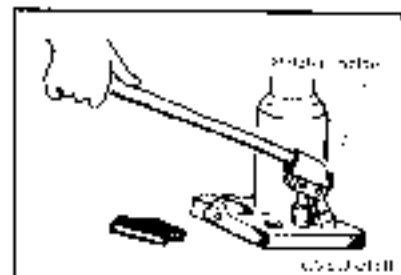
Moving the jack handle up and down, raise the vehicle.

NOTE

To park up the front of the vehicle, correctly position the jack at position A, regardless of the ground clearance. Do not use the jack at position A, unless it is on D.



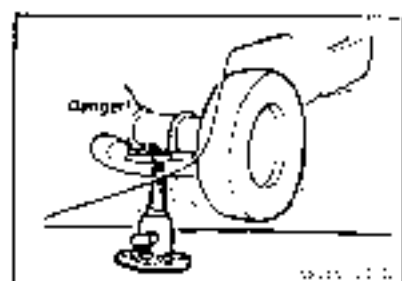
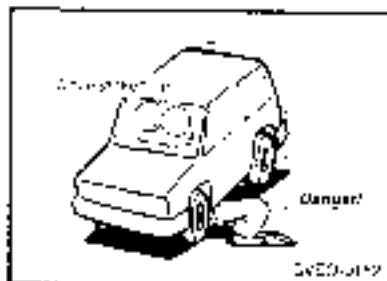
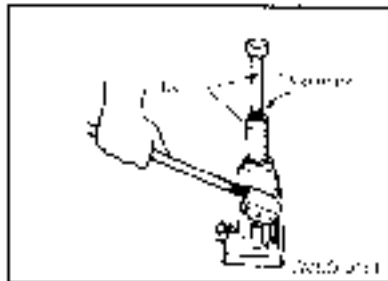
When working on the rear of the vehicle, turn the tip of the jack so that the grooved portion properly meets the designated point. Using the jack handle, turn the release valve counterclockwise slightly to lower the car and then take out the jack.



NOTE

- (1) Occasionally, with the front end of the vehicle, it may tilt up. Use pressure on the front of the vehicle to prevent it from coming off. When it is supported, raise the vehicle to lower the car.
- (2) When the jack is difficult to remove by hand, insert the jack handle into the holder and catch the end of the handle on the hold-down and be careful to hold it there. Then pull the jack handle and remove the jack.

Push the handle down all the way and turn the release valve clockwise to lock its end stop.



CAUTION

- (1) Use only the jack included with the vehicle and use it only for changing a wheel and for installing tyre chains.
- (2) Position the jack on a hard, level surface.
- (3) If the release valve is loosened by turning it 2 or more times in the counter-clockwise direction, the jack's oil will leak and the jack cannot be used.
- (4) This jack is hydraulic, and the ram is a two stage type. When both rams are raised and the stop mark of the upper ram becomes visible, stop jacking immediately.
- (5) Some models are equipped with jacks which have no stop mark. To extend this type of jack to its full length, continue jacking until the

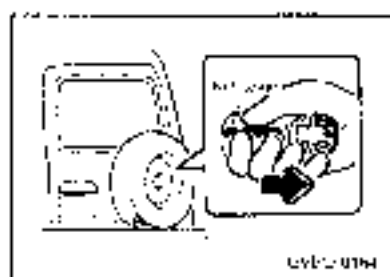
jack stops and can be extended no further.

- (6) When jacking up the vehicle, be sure that there is no one in or under the vehicle.
- (7) When jacking up the vehicle, do so only until the tyres are slightly lifted from the ground. It is dangerous to jack up the vehicle more than that much.
- (8) It is very dangerous if the jack somehow slips, so never leave the vehicle in the jacked up position, and never shake the vehicle while it is raised.

- (9) When jacking up one side of a vehicle with limited differential, do not start the engine. The power of the engine could be transferred to the tyres that are still in contact with the ground and cause the vehicle to move.

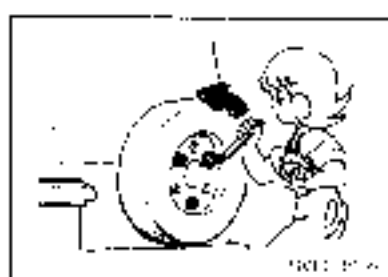
Spare wheel

<Type A>



Check the air pressure of the spare tire frequently and make sure it is easy for emergency use at any time.

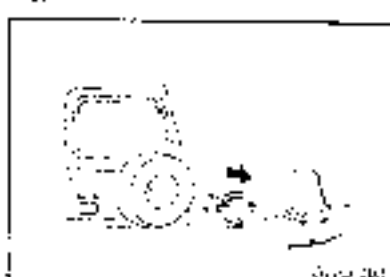
When using the spare wheel at the highest speeds or pressure situations (high speed, heavy load, etc.), the spare wheel is stored on the outside of the back seat. To remove the spare wheel from the car, turn the nut on the door with the wheel nut wrench. To prevent theft, a security code for one of the spare wheel nuts is available.



To remove the lock nut, insert the ignition key into the lock cylinder, rotate the nut cover with the key and turn toward you until it loosens the spare wheel nut with the wheel nut wrench.

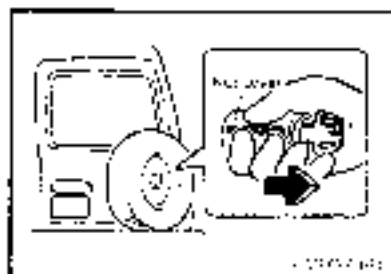
To remove the lock nut, replace the cover with the key and in the lock cylinder, pressing the nut cover onto the lock nut so the key will go then turn it by turning the key.

<Type B>



To remove the spare wheel, insert the street side of the wheel cover into the ground and turn clockwise to the edge with the wheel nut wrench. To prevent theft, a security code for the spare wheel nuts is available.

If a tyre is punctured



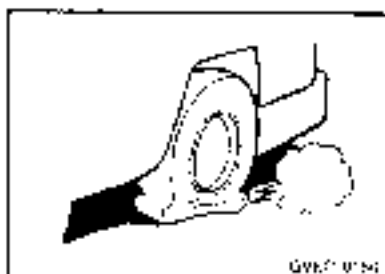
To remove the hub nut, insert the ignition key into the lock cylinder, turning the key clockwise with the key tail end toward you, and pull. This forces the spare wheel nuts with the wheel on, forward.

To install the hub nut, replace the nut on the wheel with the key end of the nut in the middle, pressing the nut on evenly and using the nut as a lever as well as a track to guide the wheel on.

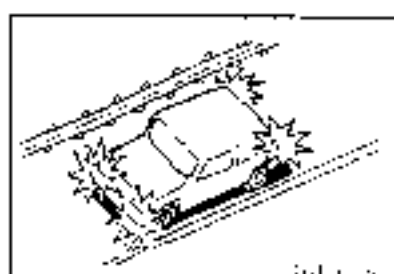
CAUTION

The spare wheel should always be securely in position.

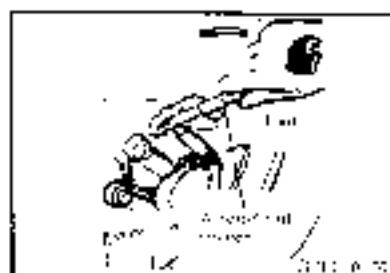
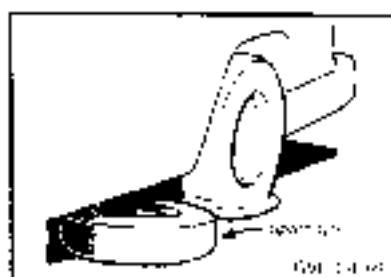
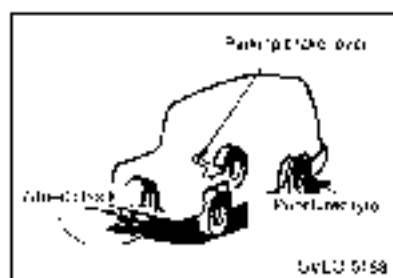
If a flat tyre is changed, put the flat tyre in the spare wheel mounting position, and use the wheel nut wrench to secure it firmly.



To prevent a blowout due to a puncture, do not attempt to drive very far on a tyre that is slowly leaking air. A hole in a tyre which is not a traffic hazard or dangerous to drive on and your vehicle is equipped, or a flat in a tyre, can be such a way that you can not drive your vehicle on it. The vehicle will change the tyre.



1) Comply with local regulations concerning the protection of brake lines, which is held by switching on the hazard warning lamp and setting up a warning triangle flashing sunset lamp, etc., at an adequate distance from the vehicle. Others in the vehicle should get out of the vehicle and wait in a safe place.



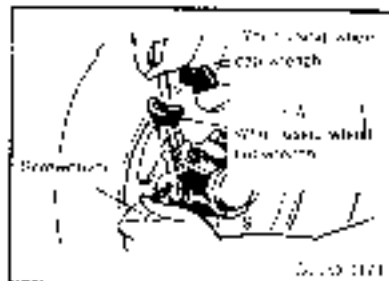
- (2) Position the vehicle on a flat, hard surface and apply the parking brake. To prevent the vehicle from rolling when it is raised on the jack, chock the wheel diagonally opposite to the one to be changed.
- (3) Prepare the spare wheel, jack and wheel nut wrench.

- (4) The spare tire should be placed in a safely, up for the vehicle and use the jack for convenient access when ready to be mounted.

- (5) If the vehicle is equipped with wheel caps, use the wheel cap wrench at the wheel nut wrench to remove the cap from the wheel.

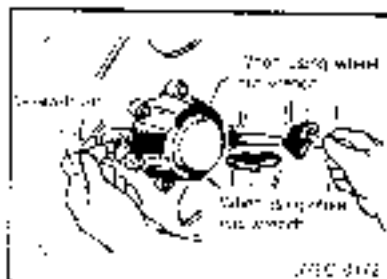
NOTE

Use a piece of cloth or other similar material to prevent scratching the wheel when the wheel cap wrench at all of the weight is used.



For vehicles with manual handbrake, turn through the wheel locks as described below.

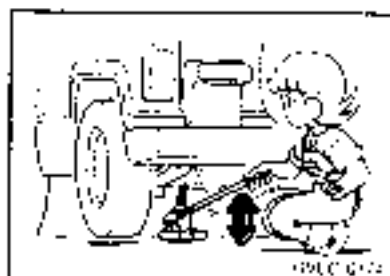
- a) Move the wheel lock wrench or wheel nut wrench as shown in the figure so as to slightly rotate the wheel lock so that the wheel lock opens. Insert a screwdriver in the slot.



- b) Remove the wheel spacer or wheel nut brace and pull it off the opposite side.
- c) Move each leg as shown in the figure so as to remove the wheel cap.



- d) Loosen the wheel nuts with the wheel nut wrench. Do not remove the wheel nuts yet.



- e) Refer to the section "Tie-downs on up the vehicle" to secure a jack so that the jack stays at which to position the jack and then raise the vehicle until the tire is slightly off the ground. Remove the wheel nuts.



9. For a front wheel, remove the tire and wheel as follows:
- Put the lower cap of the disc wheel toward you.
 - When making the disc wheel come up, put one over the top of the wheel and mounting fixture. And remove it upward.

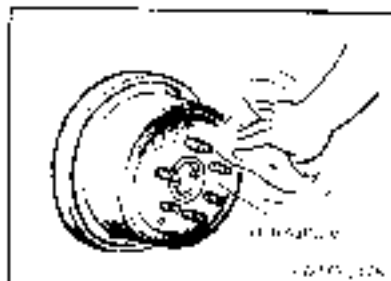


- CAUTION**
Be careful not to pull a disc wheel straight off, because to do so may damage the top of the centre cap mounting fixture. For a rear wheel, remove the centre cap mounting fixture from the disc wheel.

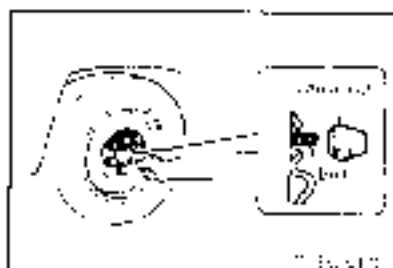


10. Use the following procedure to mount the centre cap mounting fixture:
- For the front wheel, align the axis of the hub perfectly with the angle of the mounting fixture with the location, and then mount the fixture onto the hub. Be very careful not to scratch the hub.
- For the rear wheel, align any one of the three projections on the inside of the mounting fixture with a wheel mounting hole, and then mount the fixture securely onto the disc wheel from the inside of the wheel.

- CAUTION**
Note that the shapes of the mounting fixtures for the front wheels and those for the rear wheels are different.



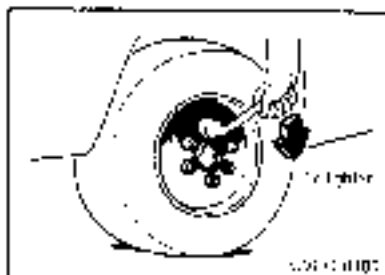
- 113) Down a screwdriver, push on the valve core. Make sure the valve core fits in the wheel, and then remove the spare tire.



- 114) With the tapered side of the wheel nuts facing toward the wheel hub, push the nuts into the hub and tighten all the way by hand. In the center of the wheel is not loose.

CAUTION

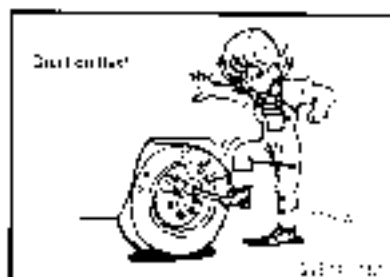
Never put oil on the wheel bolts or nuts, because this may cause them to become loose.



- 115) When the vehicle slows and then stops, check whether the nuts and washers have been tightened to the specified torque.
 Torque (N·m)
 10 to 12 kgf
 100 to 120 N·m, 70 to 80 lbf·ft

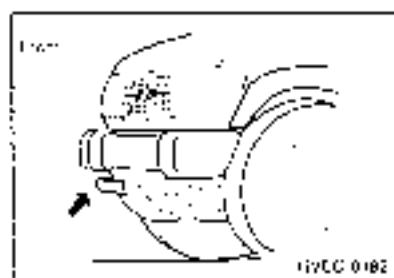
CAUTION

When tightening the wheel nuts, do not apply excessive force to tighten them, such as by using your foot to apply force to the wheel nut wrench, or by using a pipe or similar tool.



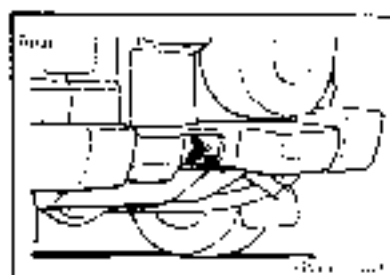
- 116) Remove the check from the wheel.
 114) Tap in the centre caps with water P. 31
 115) The flat tyre should be repaired and balanced as soon as possible.
 116) After the spare tyre is once again in place by the original tyre, adjust the inflation pressure to the correct value.
 3.1.10

Towing



As shown in the illustration, the towing hooks are located at the right side of the frame for the front, and at the centre of the rear. Towing in a part other than the designation towing hooks could result in damage to exhaust pipe.

The regulations concerning towing may differ from country to country. It is recommended that you obey the regulation of the country where you are driving your vehicle. If your vehicle is to be towed, pay careful attention to the following points.



For vehicles with manual transmission, move the assembly lever to neutral in the transmission. For those with the 172 transmission, shift to park the lever for parking.

For vehicles with automatic transmission, move the selection lever to the "N" position.

2. Release the towing spring with the legal limit. Also, vehicles with automatic transmission should not be towed at speeds exceeds of 20km/h (10mph) or for distance greater than 30km (20mi).
3. Turn the ignition switch to "LOCK" to unlock the steering wheel. If you are to use the turn signals while towing, you should turn the ignition switch to the "ON" position.

4. Turn on the hazard warning lights.
5. During towing, make sure that there are contact points between the towed and both vehicles, and that the vehicles have enough space. Avoid abrupt starting or stopping which might subject the vehicle to shock.
6. If the towed vehicle is subjected to any of emergency, do not tow longer than 20km (12.5mi) with a vehicle with a maximum weight of 1 ton off the ground.
7. As the vehicle is towed, all the power-plant, battery, the brake master cylinder will function. If possible, there will be required to adjust the brake pedal.
8. If the vehicle is equipped with the power steering system, the vehicle will be unable to operate the steering wheel.

NOTE

Do not tow a vehicle using the same tow arm and hitch of the system of the other vehicles, the speed is or less than that of your vehicle.

CAUTION

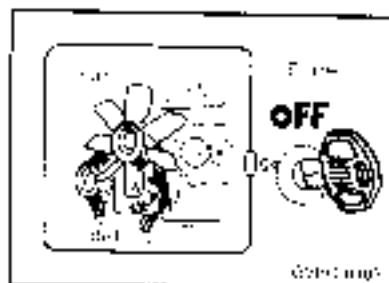
To prevent entry of exhaust gas from the towing vehicle, set the air selection lever on the heater control to the recirculation position.

Engine overheating



If the water temperature gauge indicates overheating or the red zone has lit up, the engine may be overheating. If it does, use the following procedure as soon as possible:

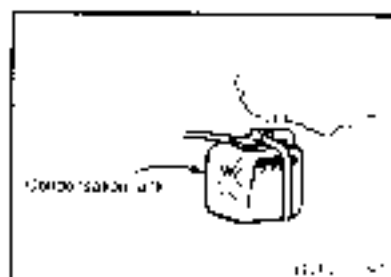
1. Stop the vehicle in a safe place.
2. With the engine still running, raise the hood to verify the engine compartment.



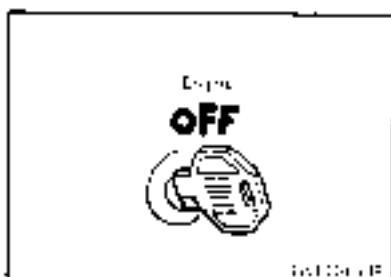
Confirm that the radiator is running. If the fan is not running, stop the engine immediately and call a 6000-9568 dealer for assistance.



Take care, when opening the hood, not to be pinched. The hood or its support rod is hot, may vibrate, hot water or steam.



Be careful not to be burned by steam coming from the condensation tank cap.



3. After the engine coolant temperature has dropped, stop the engine.



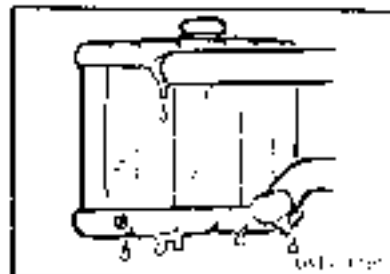
UVC0-0159

Check the coolant level in the reserve tank. If there is none, make sure that the engine has cooled down before touching the radiator cap, because hot steam or boiling water otherwise will catch from the filler cap and may scald you.



UVC0-0160

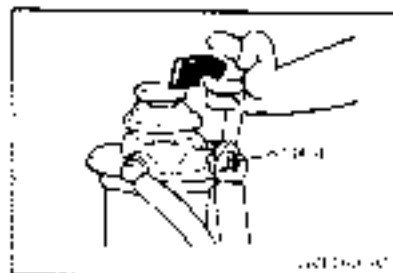
Add coolant to the radiator and fill the reserve tank if necessary. Connect the radiator to the full section. Adding cold water rapidly stops the engine in the cold state. Turn the upper head and let it leak to break, so be sure to add the water a little at a time while turning the engine.



UVC0-0161

5 Examine the radiator hoses for coolant leakage and the V-belt for loosening or damage. If there is anything wrong with the cooling system or V-belt, have the system corrected at a GAITHER DEALER.

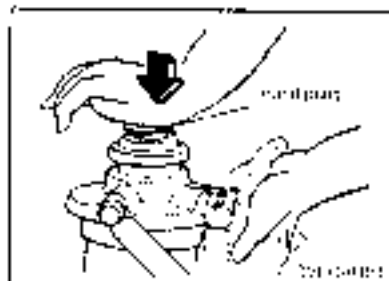
Bleeding the fuel system (diesel-powered vehicles only)



UVC0-0162

The fuel system should be bled to remove air as described below if the fuel supply is interrupted by any reason.

1 Loosen the air plug at the top of the fuel line.



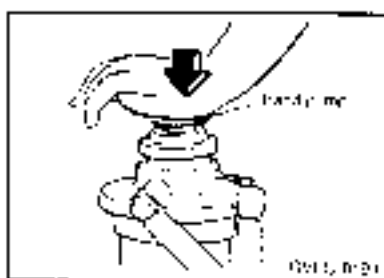
2. Pump the hand pump until there are no more bubbles in the line coming out of the air plug. When done, install a rubber grommet in the air plug to prevent the escaped fuel from spraying ahead.
3. Tighten the air plug when there are no more bubbles in the line.
4. Continue pumping until the hand pump becomes hot.
5. Finally check to be sure that there is no leakage at the air plug. For details, see your owner's MANUAL OPERATOR's GUIDE.

CAUTION

1. Do not smoke or have any other open flame near the vehicle while bleeding the fuel system.
2. Be sure to carefully wipe up any water drained out in this manner, because the fuel mixed in the water might be ignited and result in a fire.

Removal of water from the fuel filter (diesel-powered vehicles only)

If the warning and indicator during operation indicates that water has accumulated in the fuel filter. If this occurs, remove the water as described below.



1. Rotate the drain plug at the bottom of the fuel filter.
2. Operate the hand pump slowly 6 or 7 times in order to force the water out through the drain plug.
3. Rotate the drain plug when water no longer comes out.
4. Loosen the air plug and bleed the air filter in "Bleeding the fuel system".

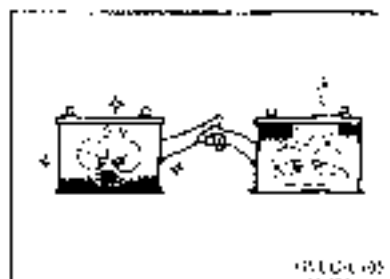
5. Check to be sure that the warning lamp illuminates when the ignition key is turned ON, and that it goes off when the engine is started. If it doesn't, consult your nearest GALLOPER dealer.

CAUTION

- 1) Do not smoke or have any other open flame near the vehicle while bleeding the fuel system.
- 2) Be sure to carefully wipe up any water drained out in this manner, because the fuel mixed in the water might be ignited and result in a fire.

Emergency starting

If the engine cannot be started because the battery is weak or dead, the battery from another vehicle can be used with jumper cables to start the engine.

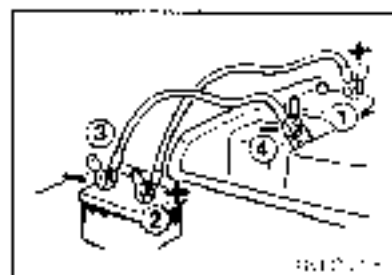


CAUTION

- 1 Do not attempt to start the engine by pulling or pushing the vehicle.
- 2 Use only specified jumper cables with sufficient cross-sectional area.

The following points should be observed:

- 1 Both batteries must be 12V. The capacity of the battery supplying current should not be significantly less than that of the discharged battery.
- 2 Use only heavy-duty jumper cables.
- 3 A discharged battery can become a frozen battery thus, use a power source other than using the jumper cables.
- 4 There should be no contact between the two vehicles, otherwise a electric flow when the positive terminals are connected.
- 5 The discharged battery must be immediately recharged in the vehicle's electrical system.
- 6 Run the engine at set idle speed for 1 min.



- 7 Turn on the jumper cables as follows:
 - a) Connect one end of one jumper cable to the positive terminal of the dead battery, and the other end to the positive terminal of the battery to be used.
 - b) Connect the other end of the jumper cable to the negative terminal of the dead battery, and the other end to the negative terminal of the good battery.



CAUTION

- 1) Do not allow the jumper cable clips to touch one another.

- (2) Do not connect the jumper cable to the negative terminal of the IIA1 battery. The battery generates explosive gas, and a spark caused when the jumper cable is disconnected from the negative terminal could ignite this gas and cause an explosion.
- (3) Be careful that the jumper cable does not become caught in the engine fan, etc.



- B Start the engine as described in "Starting the engine."
- C After the engine is started, disconnect the cables in the reverse order.

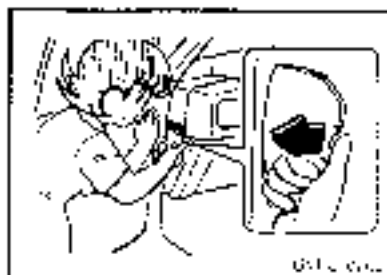
Brake pad wear alarm



The disc brakes are provided with an alarm device which produces a variable frequency sound signal when the brake pads have worn down near to the safety limit.

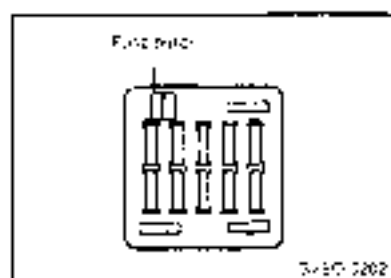
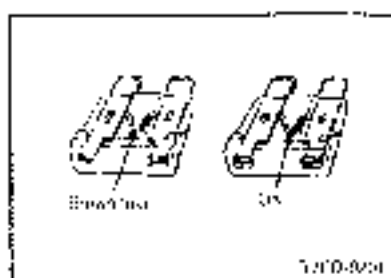
Such a sound is produced. Have the brake pads replaced at a GAZI SERVICE dealer.

Fuses



To prevent damage to the electrical system due to short-circuit or overloading, each individual current circuit is protected with a fuse. The fuse housing is located on the left of the instrument panel in the position also shown in the illustration.

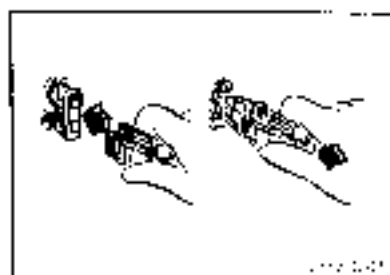
Changing a fuse



1. Before replacing a fuse, be sure to turn all the electrical systems concerned.
2. Remove the fuse housing cover.
3. To verify the fuse load capacity, check the fuse pertaining to the problem.

4. Replace the fuse if necessary. There is a fuse puller in the fuse housing (see the third step). Pull up the fuse puller out of the fuse housing and then, as shown in the illustration, pull the fuse straight out from the fuse housing. If the fuse blown, something else must be causing the problem. Contact a GALLOPPER dealer to have the problem checked.
5. Insert a new fuse of the same capacity securely into the slot.

- (2) Never use a fuse with a capacity larger than that specified or any substitute such as wire, foil, etc. Doing so will cause the circuit wiring to heat up and could cause a fire.



CAUTION

- (1) If the newly inserted fuse blows again after a short time, have the electrical system checked by a GALLOPPER dealer to find the cause of the short circuit and rectify it.

Things you should know

Chassis number

Vehicle identification number

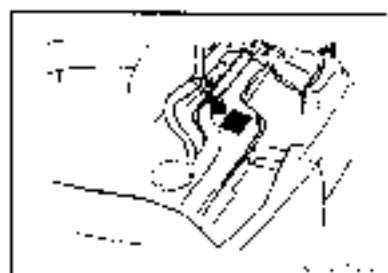
Engine number

Chassis number



The chassis number is stamped on the side of the frame near the right rear wheel.

Vehicle identification number (VIN)



The vehicle identification number (VIN) is stamped on the front of the engine compartment. The plate shows model code, year, and VIN and body color code.

Engine number



The engine number is stamped on the front of the engine block as shown in the illustration.



Service data

Scheduled maintenance table

Specifications

Lubrication chart

SCHEDULED MAINTENANCE TABLE

The following maintenance services must be performed to assure good vehicle operation and performance. Maintenance for a vehicle should always be scheduled on a regular basis. The frequency of services is determined by either kilometers or months.

(R) Replace (I) Inspect and after inspection, clean, adjust, repair or replace if necessary.

No.	DESCRIPTION	KILOMETERS x 1000											
		0-5	10	15	20	25	30	35	40	45	50	55	60
		MONTHS											
		6	12	18	24	30	36	42	48	54	60	66	72
ENGINE CONTROL SYSTEM MAINTENANCE (DIESEL)													
1	ENGINE OIL & OIL FILTER												
SEE NOTE (1)													
2	AIRC. FAN/FILTER												
3	FUEL SYSTEM LEAKS												
4	FUEL FILTER												
5	VALVE CLEARANCE												
6	INJECTION TIMING												
7	TIMING BELT												
8	DRIVE BELT (FOR WATER PUMP/ALTERNATOR)												
9	ENGINE IDLE SPEED												
10	INJECTION NOZZLE (IF EXHAUST GAS INCLUDES BLACK SMOKE)												

Note: (1) Replace the engine oil every 7,500 km or 5 months whichever occurs first after first replacement of 7,500 km.

F. Regularly inspect the air passages and adjust them as necessary. (Necessary)

NO.	DESCRIPTION	KILOMETERS X 1000									
		15	30	45	60	75	90	105	120		
		MONTHS									
		12	24	36	48	60	72	84	96		
ENGINE CONTROL SYSTEM MAINTENANCE (GASOLINE)											
1	ENGINE OIL & FILTER	Every 10 000km (30)									
2	DRIVE BELT TIGHTENING PUMP & STRG.	I			R		I				
3	FUEL FILTER				P						
4	FUEL LINES, FUEL HOSES & CONNECTIONS	I		I	I	I	I	I	I	I	I
5	TIGHTEN BELT				I			P			
6	VACUUM HOSE & FIT. FILLER CAP				I						
7	VACUUM CRANKCASE VENTILATION HOSES				I						
8	AIR CLEANER FILTER	I	R	I	R	I	R	I	R	I	R
9	SPARK PLUGS		I	R		I	P				
SPARK PLUGS (PLATINUM COATED) ONLY								R			

B. Inspect and after inspection, if necessary, adjust, repair or replace if necessary.

NO	DESCRIPTION	KILOMETERS (K.M.)				MONTHS				06	07
		75	15	30	45	60	75	90	30		
GENERAL MAINTENANCE											
1	ENGINE OIL OIL	SLL NOTED									
2	MANUAL TRANSMISSION OIL										
3	ALTERNATE (TRANSMISSION OIL)				H					H	
4	REAR AXLE OIL (WITH 50)	R			R					R	
5	CLUTCH BRAKE PEDAL FREE PLAY										
6	CLUTCH BRAKE OIL RESERVOIR										
7	BRAKE HYDRAULIC FLUID				R					R	R
8	FRONT BRAKE PAD										
9	FRONT BRAKE CALIPERS/CYLINDERS/DISC										
10	REAR BRAKE DRUMS/LINERS/CYLINDERS										
11	HAND BRAKE										
12	TIRE CONDOT COMPRESSURE	Improve check and correction according to the condition									
13	EXHAUST SYSTEM MOUNTING										
14	STEERING JOINT/RACK BOX/OIL LEAKS										
15	SUSPENSION JOINT/SCATS										
16	FRONT WHEEL BEARING										
17	ENGINE COOLANT HOSES										
18	BRAKE PIPE CORROSION										

Note: (2) For every 24 months (18)

MAINTENANCE UNDER SEVERE USAGE CONDITIONS

The following items must be serviced more frequently on cars normally used under severe driving conditions. Refer to the chart below for the appropriate maintenance intervals.

B: Repack, if required, after inspection, clean, adjust, trim or replace if necessary.

MAINTENANCE ITEM	MAINTENANCE OPERATION	MAINTENANCE INTERVALS		DRIVING CONDITION
		GASOLINE	DIESEL	
ENGINE OIL AND FILTER	B	EVERY 5,000 KM OR 18 MONTHS	EVERY 3,000 KM GENERAL EXPORT: EVERY 4,000 KM (EU) EASTERN EUROPE, CIS, SRAEL	A, B, C, F, H
AIR CLEANER/FILTER	H	MORE FREQUENTLY		C, E
SPARK PLUGS	B	MORE FREQUENTLY		B, H
TIMING BELT	H	EVERY 60,000 KM OR 48 MONTHS		D, E, F, G
BRAKE PADS, CALIPERS AND ROTORS	I	MORE FREQUENTLY		C, D, G, H
REAR BRAKE COLAS/LININGS				
PARKING BRAKE	I	MORE FREQUENTLY		D, G, H
STEERING GEAR RACK LINKAGE				
A-BOOTS/LOWER ARM BALL JOINT	I	MORE FREQUENTLY		D, D, E, F

SEVERE DRIVING CONDITIONS

- | | |
|--|--|
| A - Repeated short distance driving | E - Driving in sandy areas |
| B - Excessive idling | F - More than 50% driving in heavy city traffic during hot weather above 32°C (90°F) |
| C - Driving in dusty/high roads | G - Driving in mountainous areas |
| D - Driving in areas using salt or other corrosive materials or in very cold weather | H - Towing a trailer |

Specifications

Engine

Model	Displacement (cc)
2.5NA	2,476
2.5TC	2,476
3.0SE	2,977
2.6GSE	2,555
2.6 INTERCOOLER T.C.	2,555

Model	Displacement (cc)
D4DF	21
D4BH	21
G6AT	35
4G54	48

Model	Displacement (cc)
D4BA	1,347
D4BF	1,347
D4BH	1,347
G6AT	1,021.50
4G54	1,347

Model	Displacement (cc)
D4DA	51.1 X 65
D4BF	51.1 X 65
D4DF	51.1 X 65
G6AT	51.1 X 76
4G54	51.4 X 66

Model	Displacement (cc)
D4DA	51

GEAT	4.7
4Q54	4.8
Fuel system	
Fuel tank capacity (l)	
D4BA(SwB)	60
-LWB	92
D4BF(SwB)	61
-LWB	92
D4BH(SwB)	75
-LWB	92
GEAT(SwB)	75
-LWB	92
4Q54-LWB	92
Clutch	
Type	
D4BA	Dry single disc
D4BF	Dry single disc
D4BH	Dry single disc
G6AT	Wet single disc
4Q54	Dry single disc

Operation type	
D4BA	Oil pressure type
D4BF	Oil pressure type
D4BH	Oil pressure type
G6AT	Oil pressure type
4Q54	Oil pressure type
Transmission	
Type	
1-2 speed	
D4BA	Synchronesh transmission
D4BF	Synchronesh transmission
D4BH	Synchronesh transmission
GEAT	Synchronesh transmission
4Q54	Synchronesh transmission
Reverse	
D4BA	Constant-mesh transmission
D4BF	Constant-mesh transmission
D4BH	Constant-mesh transmission
GEAT	Constant-mesh transmission
4Q54	Constant-mesh transmission

Receiver use	
1st	
D45A	4 300
D4BF	3 987
D4BH	3 918
G6AT	3 918
4G5A	3 987
2nd	
D45A	2 355
D4BH	2 136
D4B4	2 287
G6AT	2 287
4G5A	2 136
3rd	
D45A	1 508
D4BF	1 380
D4BH	1 305
G6AT	1 380
4G5A	1 380
4th	
D45A, D4BF, D4BH, G6AT, 4G5A	1 000
5th	
D45A	0 807
D4BF	0 266

D4BH	0 329	
G6AT	0 329	
4G5A	0 806	
reverse		
D45A	4 142	
D4BF	3 578	
D4BH	3 395	
G6AT	3 325	
4G5A	3 078	
Quantity:		
D45A, D4BH, G6AT	3 2	
G6AT, 4G5A	3 2	
Automatic transmission		
	3 000L	10 100
1st	2 506	2 526
2nd	1 483	1 483
3rd	1 000	1 000
4th	0 700	0 586
Reverse	2 700	2 700

Transfer	
Type	Constant-mesh transmission
Gear ratio	
H	1.000
L	1.025
Suspension	
Front	
Camber	1°-30'
Caster	2°55'±
Toe-in	5.0-3.0 mm
Rear	
Camber	0
Toe-in	3 mm
Steering system	
Steering gear type	
Power steering	Variable bell & nut type
Angle	
Incline	10-30
Climb	28-30

Brake	
Type	
Front	Disc
Rear	Drum
Brake type	
Vacuum	
Brake fluid	
DOT 3	
Electrical system	
Battery capacity (A-H)	
2.5 DSL NA, T/C, TC	88 or 100 (calc. approx)
3.0 GSL, 2.6 GSL	65
Alternator capacity (A)	
2.5 DSL NA, T/C, TC	65 or 75 (WVA/BS)
3.0 GSL, 2.6 GSL	75 or 90 (WVA/BS)
Starter motor capacity (Kw)	
2.5 DSL NA, T/C, TC	2.1 or 2.2
3.0 GSL, 2.6 GSL	1.2
Ignition type	
2.5 DSL NA, T/C, TC	Compressor line type
2.0 GSL, 2.6 GSL	Spark plug on type

Lubrication chart

Items	Oil & Grease Standard	Qty.(ltr.)
Engine oil	Select an grade oil of the proper SAE viscosity number according to the atmospheric temperature.	3.0 GSI 4.7 2.5 GSI 6.5 2.8 GSI 4.5
Automatic transmission	DIAMOND ATF SP-2	1.7
Manual transmission and transfer oil	Hypoid gear oil API GL-4, or higher SAE viscosity SAE 75w/85w	Transmission oil 2.0GSI 2.7 2.5GSI (KA TC) 2.2 2.0GSI (TC) 2.7 2.6GSI 2.0 Transfer oil 2.2
Brake fluid & clutch fluid	SAC J1703(DOT 3)	As required
Power steering fluid	ATF DEXRON II & ATF SP	As required
Differential gear oil	Hypoid gear oil API GL 5, or higher SAE viscosity SAE 80w/90w (for conventional type) MITSUBISHI genuine Gear oil (part No. 81496502) or CASTROL HYPOX LS (for limited slip differential type)	Front 1.1 Rear No.6 1.6 No.7 2.3

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